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**Morning Session**

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## **INTRODUCTION**

The number of graduating students' keeps increasing year by year thereby making it extremely difficult to hold the annual Congregation (Graduation) Ceremony in a singular session.

Various strategies have been adopted in the recent past to solve the problem of overcrowding at the ceremony. This includes the two-session, one-day event and a four-session two-day event, depending on the total number of students graduating in a particular year.

The number of graduating students for the June 2010 Congregation ceremony was 5,127 undergraduates and 420 postgraduates. This figure represents the largest graduating class in the history of the University.

Consequently, the Congregation Planning Committee's recommendation for the smooth conduct of the 2010 Congregation was favourably considered. Thus for the first time, Congregation was held over a period of six days, with two-sessions each day.

This innovation was introduced in order not to demean the beauty of the programme with unsightly scenes of participants loitering around the Great Hall, as well as allow as many parents as possible to get access to the Great Hall to witness the ceremony and participate in the programme.

The programme was thus scheduled as follows:

<b>DAY</b>	<b>SESSION</b>	<b>COLLEGE/FACULTY/DEPT.</b>
One	Morning	Department of Economics Department of Geography & Rural Dev't. Department of Sociology & Social Work Department of Tourism & Culture
One	Afternoon	College of Architecture & Planning
Two	Morning	Department of English Department of Modern Languages Department of Religious Studies Department of History & Political Studies
Two	Afternoon	School of Business Faculty of Law
Three	Morning	Faculty of Fine Art Faculty of Industrial Art
Three	Afternoon	College of Agriculture & Natural Resources
Four	Morning	Faculty of Physical Sciences

Four	Afternoon	Faculty of Biosciences Institute of Distance Learning
Five	Morning	Faculty of Civil & Geomatic Engineering Faculty of Chemical & Materials Engineering
Five	Afternoon	Faculty of Electrical & Computer Engineering Faculty of Mechanical & Agriculture Engineering
Six	Morning	School of Graduate Studies
Six	Afternoon	College of Health Sciences

## **DAY ONE (MORNING SESSION)**

### **WELCOME ADDRESS BY THE CHANCELLOR OF THE UNIVERSITY, OTUMFUO OSEI TUTU II, ON THE OCCASION OF THE 44<sup>TH</sup> CONGREGATION OF THE UNIVERSITY HELD ON JUNE 21, 2010 FOR THE COLLEGE OF ART AND SOCIAL SCIENCES IN THE GREAT HALL AT 09:00 HOURS**

#### **SALUTATION**

The Representative of the President of the Republic of Ghana  
Members of the Council of State  
Honourable Ministers of State  
Honourable Members of Parliament  
Members of the Diplomatic Corps  
Nananom  
Members of the Council of the University  
Vice-Chancellor and Vice-Chancellors of Sister Universities and University  
Colleges  
Vice-Chancellor Elect  
Pro Vice-Chancellor and Pro Vice-Chancellors of Sister Institutions  
Registrar and Registrars of Sister Universities  
Provosts  
Members of Convocation  
Staff and Students of the University  
Invited Guests  
Members of the Inky Fraternity  
Our Privileged and Esteemed Graduands  
Ladies and Gentlemen

#### **GREETINGS**

I bring you warm felicitations from the Manhyia Palace and from the University having gathered here this morning to receive a report on the University and to confer honours on our deserving Graduands who have toiled these past four years, going through our rigorous and demanding tutelage, to become part of the industrious Alumni of the University who are charting and spearheading the science and technology advancement of our dear country, Ghana.

#### **OUR MANDATE**

The University, established 60 years ago, was founded for one main purpose - to lead Ghana's industrialisation and science and technology advancement through the education and training of critical human resource and the conduct of applied research and development activities for national development. Throughout the years, we have shouldered this honourous responsibility with steely candour, deserving dedication and collective collegiality. The positive and encompassing results are there for all to see. Ghana is richer for it and we are proud as a University to have trail-blazed Ghana's science and technology development, this far.

#### **KNUST AT 60**

In November 2011, the University would be 60 years old having been founded in 1951, first as a College of Technology and then as a University by an Act of Parliament in 1961. That calls for celebration, for 60 years of one's life is a watershed, preceding the last decade given

by providence for one's existence on this earth - THREE SCORE AND TEN. For an institution, it is a manifestation of our progress; of our passion and ethos; and, our maturation in the conduct of our given mandate. It also calls for an evaluation, introspection into how we started; where we are; and, where we are going from now - the WAY FORWARD. It offers us a rare opportunity to showcase our achievements in the light of our vision and mission as a lead and prominent institution of higher learning. Above all, it highlights our challenges and provides us with the platform to situate our mandate; our achievements; and, our aspirations in the context of our national developmental agenda.

### **CHALLENGES**

In 2004, the University instituted the Collegiate System as a way of rationalising our academic life in order to give real and meaningful touch to our mandate, our vision and our mission as the nation's premier and lead science and technology institution. After six years of operation and a year into our 60 years of existence, the time is ripe and propitious to review the Collegiate System in order to determine whether or not the System, as envisioned, assures the realisation of the University's mandate within the changing dynamics of 21<sup>st</sup> Century higher education; and, to consider whether, as presently constituted, the Collegiate phenomenon provides the platform for the proper harnessing, mobilisation and utilisation of available resources for cost-effective, efficient and purposeful science and technology education and training for national development.

I am reliably informed that, following the acceptance of the Reports of the Committees appointed by the Council of the University to review the Collegiate System, the Council has requested the Academic Board to consider the Recommendations of the Reports in order for Council to cause the implementation of the said changes during the 2010/2011 Academic Year. It is my humble wish and prayer that the Academic Board would work in tandem with the Council to bring the required changes to fruition so that the University and Ghana would be richer for our purposes and our 60<sup>th</sup> Anniversary Celebrations would be worth celebrating.

### **UNIVERSITY ACT**

It is for these same reasons, am told, that the University Council has constituted a Special Committee under the Chairmanship of Paapa Dadson, Esq., a prominent Solicitor and Advocate of the Supreme Court of Ghana and a former Member of the Council of the University, to cause a review of the Act and Statutes of the University in order to bring the institution at par, with its mandate, with the dynamics of a modern science and technology institution for national development.

### **OUR FAREWELLS**

The old order changes yielding place to the new, so the sages say. These past four years, beginning in October 2006, we assembled here to induct a new Vice-Chancellor for the University, in the person of Professor Kwasi Kwafu Adarkwa, an eminent Professor of Transportation Planning.

Today, we celebrate his achievements and bid him farewell for a job well done. During the period of his stewardship, he strode like a colossus striding the length and breadth of the University and the world at large. The purpose was to move the University forward in the realisation of its mandate. And, today, as we bid him adieu, we are proud, as a University, to be the NUMBER ONE INSTITUTION in Ghana, the 20<sup>th</sup> in AFRICA and one of the finest science and technology Universities in the world - all through his able and dedicated

Leadership. Professor Kwasi Kwafu, MO NE YO. NANANOM NE OMAN GHANA MA WO AMO!

We also take this opportunity to welcome our Vice-Chancellor-Elect, Professor William Otoo Ellis, Professor of Food Science and Technology and Pro Vice-Chancellor of the University. In due course, he would be inducted into office. We expect him to build on the achievements of our illustrious Vice-Chancellor, Professor Adarkwa.

### **GRADUANDS**

Today belongs to the Vice-Chancellor and our beautifully clad Graduands who are about to join the exclusive, elite and prestigious community of Alumni of the University. For four hard years, you have toiled day and night to reach this great height of your emerging life-long career. Your achievements have brought this great assembly of proud parents, guardians, teachers and well-wishers together. It is your day. It is your time. It is your moment. Enjoy it all and make the best of it. But remember, it comes with a great responsibility - to give back in return to your family, your community, your institution and your nation, Ghana, what you have acquired through our germaine benevolence, support and tutelage. Do not become the ALSO RUNS.

Be a patriotic citizenry. Stay in town. Offer your services and be proud to be a GHANAIAN. We wish you the best of God's tidings and guidance on you as you exit these great and noble gates of knowledge building and acquisition.

### **THE CONGREGATION**

And now, as I welcome you all to this Great Hall, I have the singular honour and responsibility as the Chancellor of this noble and great University, to DECLARE THIS CONGREGATION DULY CONSTITUTED.

Thank you and God Bless.

**OTUMFUO OSEI-TUTU II**  
**CHANCELLOR**

**MOTIVATIONAL SPEECH DELIVERED BY DR. ATO ESSUMAN, A MEMBER OF COUCIL OF STATE ON THE OCCASION OF THE 44TH CONGREGATION OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI HELD ON MONDAY, JUNE 21, 2010 FOR THE COLLEGE OF ART AND SOCIAL SCIENCES (ECONOMICS, GEOGRAPHY AND RURAL DEVELOPMENT, SOCIOLOGY AND SOCIAL WORK, AS WELL AS TOURISM AND CULTURE) IN THE GREAT HALL**

The Vice-Chancellor  
The Pro Vice-Chancellor  
The Provost of the College of Art and Social Sciences  
Distinguished Members of Faculty  
Friends and Family Members  
The Graduating Class of 2010  
Distinguished Ladies and Gentlemen

It is my pleasure to be here today to join this great and progressive academic family on this momentous occasion to celebrate the achievements of a milestone. It is indeed a privilege and a grand honour done me to share thoughts, ideas and to recognize the achievement of effort by our gallant graduands. I am particularly enchanted because coming back today to the cradle of my identity which served as the threshold for defining future life always brings back horde of fond memories.

Education, as we all know, is a social institution which is designed to prepare the youth to take up leadership and other responsible positions in society through the acquisition of the relevant knowledge, skill, attitudes and right value systems required to foster our self-discipline that assures us of our livelihood. Values such as courtesy, consideration, and respect for self, others and authority are the foundations of a civilized society. Having therefore been the recipients of a quality educational system, much is expected of you as agents of positive change in your societies.

To be able to operate meaningfully as a nation in this environment, we need to develop the right attitudes and mind set through sound ethical principles and values that help to equip us to face the challenges of our time.

It is a fact that the wealth of a nation lies in its people. The celebration of success today epitomizes the overbearing importance the nation places on its people and for that matter, its wealth. Our commitment to the nation's development, our willingness to strive and persevere, our ability to think, achieve and excel in all endeavours, depend largely on our continually renewing and regenerating our commitment and zeal for the realization of our self-actualisation and developmental objectives. The essential tool needed for attaining this goal is undoubtedly the cultivation of discipline in all its forms, which is also considered as the precursor for academic excellence and the pursuit of national development.

This ceremony itself is a testimony that your sojourn in this environment is over. The good thing about today is that no matter the challenges you faced in your academic pursuits - class assignments, project work, trailing, no cash syndrome; whatever the challenges were, they are over. But this is only one phase of your sojourn on this planet.



I am sure that there are some people who wish that they forever remained students. Some years ago some students did their preliminary studies here, continued with the degree, managed to do their masters without ever leaving campus to their homes, not even at Christmas. Now it's over.

You are now transitioning into a world full of expectations and sometimes difficult circumstances. You're about to enter into a world filled with hypocrisy and doublespeak, a world in which many have no respect for other people's interests and needs. One of the challenges you will be faced with is finding a job in our depressed economy. In fact, the chances of landing on a decent job are about as good as Ghana winning the world cup. It is not impossible but daunting. But, such a scenario notwithstanding, there are still many, many opportunities.

Your ultimate success will no doubt be associated with the very institutions and communities that gave you life, character, and identity. These institutions have undoubtedly equipped you with the requisite knowledge, social and moral values to function as the nation's productive sons and daughters. As a natural sequence therefore, it is expected that you demonstrate your gratitude to these social and academic communities that have made you who you are while recognising the need to give back to help support and develop the cradle of your identity.

To make the very most of your life and the opportunities you have been given, you must rise to your responsibility to give something back to Ghana of what you have been given. As the years pass by, your generation will be judged and you will begin to judge yourselves not only on what you do for yourself and your family, but on the contributions you make to others, to your country, your communities and your generation of children. When you turn good fortune into a chance for others, you then will not only be leaders in your individual constituencies but you will become the leaders of this country. The future of this country is in your hands. Work towards it and take good care of it.

I will strongly advise you to network. Networking, unfortunately, is often overlooked by graduates who often believe that networking is something reserved to executives or those with years of experience. By networking, you communicate with people that you know, such as friends, relatives, business acquaintances and alumni of your faculty, college or the university. You have two primary goals: let them know that you are looking for a new job and ask them to help you in that search by letting you know if they hear of any opportunities or can refer to others who might be of help. The more people with which you network, the more leads you're likely to generate. Indeed you are automatic members of the KNUST Alumni. Formally join it and take advantage of the many services they offer.

As you go back home and to the larger world remember whose son or daughter you were before you came in here. Don't be under any illusion that you are more important than those who sponsored your university education and those you left behind in your homes and communities. They gave you all the respect as a big brother, sister, daughter or son. As you go back don't take the university environment along with you. It will not fit in that environment.

Wherever you go, whatever you do, please be mindful of the fact that life is not just another qualification, a job, money or marriage. You will soon appreciate that with your university degree, you may still be so much reliant and dependent on people who you never considered will matter in your life.

Be humble. They know what life means. Learn from them. Some parents are worried about your coming back home even though they may pretend they are happy now. You are the latest unproductive addition to the family; a burden to the family budget. With some of you your parents can not add one extra room to the family house for you to have your privacy. You are going to share the room with others and this time it is not for a while. That is going to be your situation until you have resources to move out. Do not complain, be humble. You are the reason for your parents impoverished state. The expenditure on your education could have built two rooms or enhanced your mother's wardrobe.

Mfantseman Girls Secondary School has as their school motto - "Obra nye woara abo" which translates as "Life is what you make it". Whether you are from a rich family or a poor family; whether you had a first class or a pass; whether you are confident or timid; whether you are popular or unpopular, these are not in any way going to determine how life treats you in the real world. What you become in future depends on how you take your chances in life.

Greatness in life comes from the tenacity of purpose, perseverance and reliance in all endeavours. This requires hard work, positive moral and ethical values and self-discipline. With a disciplined life, you will be able to maximize your potential and thread the pathway of success by discovering good opportunities in life. You have to realize that only you are in control of your future and that there are no barriers that you cannot bring down in your pursuit for progressive and successful life.

Don't be under any illusion that the class you obtained is what is going to determine how life treats you. Let me tell you before you get disappointed. The world does not always favour the brightest and best. Make room for disappointments and failures, not once, not twice but many times. But when they come your way, don't be discouraged. Keep moving on.

The opportunities you seize in the period that you don't feel responsible, for example during national service are what can make your future. Now let me tell you a story of a young man a newspaper vendor who exploited opportunities that came his way.

In the December 2004, I made a decision to support a news vendor. This was someone who had finished SSS but performed poorly and could not progress further academically. Together with six other people they stayed in a room of a family member. He made fifteen cedis in a day for newspaper sales spent five cedis and saved ten cedis with his uncle. At the time that I met him he saved 1.2 million cedis but the uncle squandered the money.

I arranged for him to be brought to my office. I asked him what he wanted to do. Electronics, he replied. I looked at the result slip and asked the following statements: **You can't do electronics with this result. Would you mind re-sitting?**

He was eager when he realized that I meant business. I got him enrolled in one of the remedial schools in Accra and monitored his progress. Three months to examinations time, I made him stop selling newspapers to concentrate on preparing for his exams and to have the opportunity to use the library and gave him the same amount he would have made if he still sold papers.

The results were released and behold, there was tremendous improvement in performance. He had aggregate 19. I tried to get him enrolled in one of the public universities but I was not successful. The Methodist University admitted him and this young man

graduated with a very strong second class upper (Division) missing first class by just one point. Motivated by such achievements, he knew that with such unanticipated achievements nothing could prevent him from achieving greater heights. He was counselled and enrolled as an accountancy student with the ACCA during national service took the first part of the professional exams and passed. A year after national service, he is writing his final papers. This young man took his chance. This story tells me that there is more to life and more to work for than what naturally come to us.

Many of you may have had dreams; dreams about the courses you wished to pursue at this university. It didn't happen. Dreams about jobs, careers etc. some may have their aspirations met but for many there would always be a gap between expectations and realities accepted an offer to read economics and law. At one moment I thought I was a failure for not securing my first choice. Today, I have no regrets at all.

In all these, there must be a place for the expression of our faith. Without taken undue advantage of this platform let me refer you to a Bible quotation that says "I am with you always even to the end of the world". The person who said this is one who controls the universe and our lives. Put your trust in Him.

One of my favourite artistes is Celine Dion and one of my favourite songs is the song she sang at the 1996 Olympics opening ceremony in Atlanta, Georgia in the USA, the Power of the Dream. This is what has driven many successful men and women to where they are today. The audacity of hope driven by the dream of "I CAN" is what translated into President Obama's victory in 2008. YOU ALSO CAN.

Be of good cheer as you enter the world and may the lyrics of Celine Dion's song The Power of **the Dream** inspire you.

Deep within your heart  
There lies a magic spark  
That lights the fire of our imagination  
And since the dawn of man  
The strength of just "I can"  
Has brought together people of all nations  
There's nothing ordinary  
In the living of each day  
There's a special part

Every one of us will play  
Feel the flame forever burn  
Teaching lessons we must learn  
To bring us closer to the power of the dream

Your mind will take you far  
The rest is just pure heart  
You'll find that your fate is all your creation  
Every boy and girl  
As they come into this world  
They bring the gift of hope and inspiration

There's so much strength in all of us  
Every woman, child and man  
It's the moment that you think can't  
That you'll discover that you can

The power of the dream  
The faith in things unseen  
The courage to embrace your fear  
No matter where you are  
To reach for your own star  
To realize the power of the dream

Thank you for your attention and God bless you and this University.

**DR. ATO ESSUMAN**  
**ALUMNUS**

**SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE-  
CHANCELLOR OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, KUMASI, ON THE OCCASION OF THE 44TH CONGREGATION  
CEREMONY FOR THE COLLEGE OF ART AND SOCIAL SCIENCES  
(ECONOMICS, GEOGRAPHY AND RURAL DEVELOPMENT, SOCIOLOGY AND  
SOCIAL WORK, AS WELL AS TOURISM AND CULTURE) HELD ON MONDAY  
21<sup>ST</sup> JUNE, 2010 AT 9.00 A.M. IN THE GREAT HALL**

**SALUTATION**

Your Majesty, Otumfuo Osei Tutu II, Chancellor of the University  
Chairman of the University Council  
Honourable Ministers and Members of Parliament  
Your Excellencies, Members of the Diplomatic Corps  
Members of the Council of State  
Honourable Ashanti Regional Minister  
Honourable Kumasi Metropolitan Chief Executive  
Members of the University Council  
Past KNUST Vice-Chancellors and Pro Vice-Chancellors  
Colleague Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors from Sister Universities  
Registrar and Registrars from Sister Universities  
Provosts of Colleges  
Deans of Faculties and Directors  
Heads of Department  
Nananom  
Guest Speaker  
Members of Convocation  
Alumni of the University  
Senior and Junior Staff  
Parents and Guardians  
Graduands  
Members of the Press  
Distinguished Invited Guests  
Ladies and Gentlemen

**WELCOME AND INTRODUCTION**

On behalf of the Chancellor, the University Council, Faculty Members, Members of Convocation, Junior and Senior Staff, I would like to welcome all of you to Congregation 2010 which promises to be a solemn event. We very much appreciate your presence here this morning because you could have been in several other places attending to your private business or pursuing several other interests. It is for this and other reasons that we very much appreciate your presence at this function. For those of you visiting our campus for the first time, please take time after the ceremony to either walk around or simply drive around the campus. You will, no doubt, be impressed about what you will see.

I would also like to use this opportunity to extend a very special welcome to our Chancellor, Otumfuo Osei Tutu II, who, we have dedicated Congregation 2010 to. This year marks ten years of his ascension to the Golden Stool. Considering that you celebrated your 60<sup>th</sup> birthday a few weeks ago, Chancellor, on behalf of the entire University community and Council, I

would like to wish you a belated happy birthday and many more happy returns. May your reign as King of the Ashanti Kingdom bring further developments to your people, the University and the nation.

This year's Congregation is unique in several ways. Apart from all the mysteries associated with the number 44, it is said to portray a fairly reasonable amount of good luck and it is the threshold between a youthful life and a life of maturity. This, therefore, implies that our university can now be considered matured together with the systems, regulations and norms that guide its effective and smooth administration.

As most of you may be aware, this year's Congregation will be held over a six-day period with no break at all; unlike last year's function. There will be a total of 12 sessions during the period and while this could have a toll on us and also increase the cost of Congregation 2010, it is our statutory obligation. In spite of all these reasons, we believe that Congregation is a special event in every graduate's life. It is an occasion when you can look back with joy while reflecting on your time as an undergraduate or graduate student. We could have lumped the Class of 2010 together and had a unitary function for the entire cohort but it would have taken away the uniqueness of the various colleges which we certainly want to portray and preserve.

This year, the College of Art and Social Sciences can count itself lucky because we are starting the entire programme with you and, more specifically, with the following programmes: Economics, Geography and Rural Development, Sociology and Social Work as well as Tourism and Culture. These programmes represent nearly one half of all the programmes on offer in the Faculty of Social Sciences. The other programmes, which will have their turn tomorrow afternoon are English, Modern Languages, Religious Studies as well as History and Political Studies.

By the foregoing arrangement, every graduand who attends the ceremony will be duly acknowledged unlike the practice elsewhere which does not acknowledge each graduand. For our graduands, from the above mentioned programmes from the College of Art and Social Sciences, today is your day. Please enjoy it but remain within acceptable bounds of decency, tolerance and mutual respect.

### **THE COLLEGE OF ART AND SOCIAL SCIENCES**

The College is one of the six Colleges in the University and in terms of student population, the largest because it is home to the Faculty of Law, Business School, Faculties of Fine Art and Industrial Art and the Faculty of Social Sciences from which we will be graduating students from four of its 11 programmes on offer this morning. The College has a total faculty strength of 172 out of a total of 882 for all the Colleges and the corresponding student population is 9,928 out of the total student population of 26,064 or 38 percent.

These figures point to a situation which may be anachronistic considering that ours is a University of science and technology but it must be viewed within its right context. From a modest beginning as a small department offering service courses, the Faculty of Social Sciences has grown from its nucleus of the erstwhile Department of General and African Studies to a full fledged Faculty with several undergraduate and postgraduate programmes on offer. The College is now a favourable destination for most students from our High Schools

and others pursuing postgraduate studies in the Business School and the Faculty of Law irrespective of their undergraduate qualification or academic preparation.

In addition, the College has some of its programmes including Sociology and Social Work, Geography and Rural Development and Economics on offer through the distance mode via the Institute of Distance Learning. These programmes were mounted in response to increased demand and as a way of enhancing access to programmes on offer in the Faculty. Teaching on these programmes as well as its regular programmes has been positively impacted on account of the research carried out by faculty members during the period under review.

### **RESEARCH BY FACULTY**

Contrary to the perception that the primary purpose of a university is simply to teach, it appears that this is gradually changing and it is now understood that the role of any university is to generate new knowledge through research, which will also impact on teaching. Without research, one really has no business to teach at the University level. In various respects the foregoing has positively impacted on the level of research carried out in the College.

During the year under review, faculty members in Economics, Geography and Rural Development, Sociology and Social Work as well as Tourism and Culture pursued their research interests and attended several conferences and workshops to present their findings. This was also propelled by the launching of the College's Journal of Art and Humanities.

In the Department of Economics, for example, the papers prepared for conferences covered a wide range of subjects including trade and development, forestry economics, health economics and poverty reduction. As a result of this, the publications arising out of research in the Department were primarily in these same subject areas. Dr. (Sr.) Eugenia Ampofo's paper on economics of maternal health published in *"Forum for Health Economics and Policy"* was very useful. The outstanding work by E.F. Oteng-Abayie and J.M. Frimpong on "Predictability of Inflation in Ghana" won the best paper in Accounting and Finance Category at an international conference and was subsequently published in the *"International Journal of Economic Perspective"*. Messrs E.F. Oteng-Ababio and J. Appiah-Nkrumah have also published an outstanding paper on "Estimating An Aggregate Import Demand Function for Ghana" which was published in the *Journal of Science and Technology*. Mr. A.K. Osei-Fosu's work on "Credit and Poverty Reduction in Ghana" published in the same journal was quite instructive. Congratulations to all faculty members in the Department of Economics whose research efforts found their way into refereed journals.

Professor Daniel Buor continued his research on utilization of health services and was able to present a paper at an international conference organized by the American Association of Geographers held in Washington, D.C. Mr. A.Y. Segbefia authored a book chapter on "Community Approach to Tourism Development in Ghana - A Modern Synthesis". In addition, some of his on-going works include: "Women's Participation in Local Governance" which will certainly impact positively on public policy. Mr. D.O. Appiah worked very hard to publish two papers in the *"Journal of Food, Agriculture and Environment"* as well as in the *"Journal of Art and Humanities"* during the year under review. Our hope is that, the numerous papers presented at conferences and workshops will now be revised to be submitted to high impact journals for publication. Congratulations to all faculty members in the Department of Geography and Rural Development.

The Department of Sociology and Social Work and its faculty members worked very hard during the year under review and this appears to have been facilitated by our partners from the University of Utah. Under the aegis of this collaboration, for example, Mr. Kwadwo Ofori Duah has had one of his articles on "Violent Attitudes and Mental Health Symptoms among Mutually Violent Ghanaian Couples" published in the *Journal of Aggression, Conflict and Peace Research*. Dr. Kofi Osei Akuoko continued with his research on traditional values, socio-cultural factors, human resource development supervisory style, workers' morale and productivity in selected organizations. Two major outputs of his research were published in the *Journal of Science and Technology* as well as the *Review of African Administrative Studies Journal*. Dr. (Mrs) Frances Azumah's work on "Gender and Cultural Based Violence and Widowhood Rituals in Ghana and its Effects on Women's Reproductive Health Rights" which she presented at an international conference of the American Sociological Association in Philadelphia, won the best paper award in the gender category.

As can be seen from the foregoing, these research outputs in the form of refereed journal publications have greatly enhanced the visibility of the Department of Sociology and Social Work. Congratulations to all faculty members in this department.

### **SERVICE TO COMMUNITY**

Faculty members from the four departments continued to offer valuable services to the University, national and international communities in various capacities. At the University level, members served in positions such as resource persons for various workshops organized by the University and its internal units. At the national level, faculty members from the four departments served on Boards such as the Forestry Commission and, in some cases, some served as members of governing boards of several Senior High Schools and others served as Trustees of some Boards. It is worth mentioning that a faculty member was appointed to serve as the Bishop of the Anglican Church in charge of the Brong Ahafo Region who also occasionally represented the Province of West Africa at various international conferences. Others also served as external examiners to various universities in Ghana and elsewhere as well as served on the editorial boards of various journals.

### **STATISTICS ON GRADUATING CLASS**

This morning, the University is presenting 667 students for graduation. The number comprises 25 with First Class degrees, 320 with Second Class degrees (Upper Division), 284 with Second Class Degrees (Lower Division) and the remaining 38 are going home with Pass degrees.

### **COLLABORATORS AND BENEFACTORS**

The four departments, from which we are presenting students for graduation this morning, have grown and become strengthened partly as a result of its exposure. To the rest of the world. In another respect, our collaborations have enhanced the visibility of these departments. The Department of Economics, for example, continued its collaboration with the African Economic Research Consortium and this facilitated the continued contribution of the Department to teaching on the collaborative Master's and Doctoral programmes hosted by the Consortium.

The Department of Geography and Rural Development established collaborative partnership with the University of Leeds, the Royal University of Holloway, University of California at



Fresno and the State University of New York at Geneseo. Partly as a result of the Collaboration with the latter university, the Department is currently in the process of setting up a Geographic Information Systems Laboratory to service its undergraduate and postgraduate students.

The collaboration with Geneseo has developed very quickly with staff exchanges and joint research projects. Last semester, a faculty member from Geneseo, Dr. Jennifer Rogalsky, taught the Gender and Development course in the Department of Geography while Dr. (Mrs.) Eva Tagoe-Darko taught "Gender and Health at Geneseo. The process of initiating another linkage programme with the University of Delaware to support the Culture and Tourism programme has just commenced.

The Department of Sociology and Social Work's strong linkage programme with the College of Social Work at the University of Utah in Salt Lake City has been mutually rewarding. It has created opportunities for several joint research projects and capacity building in general. Other collaborators and benefactors include the University of Pennsylvania's School of Social Policy and Practice and the State University of New York at Geneseo's Sociology Department.

The four departments are also grateful to the Government of Ghana for its continued support in the form of emoluments and the support provided by the GETFund through its sponsorship to attend external conferences.

At this point in time, I would like to shift my attention to the graduands by offering them some words of advice.

### **ADVICE TO GRADUANDS**

Today, as we share in your joy on your first major educational achievement in your lives, I would like to remind you that the world out there is so wide and complex that it is characterised by very many uncertainties. As a result of this, you need to begin to understand what is happening around you so you can take advantage of any genuine opportunities that come your way. I am particularly concerned about how you use your basic knowledge in economics, geography and rural development, sociology and social work as well as culture and tourism to position yourself in the ever increasing competitive environment.

You will soon find out that you need to expand your horizon by further enhancing your skills in clearly defined disciplines. This is why you need to take advantage of any opportunities that come your way as you commence your journey in the world of work. If you need to come back to KNUST for graduate studies, please do not hesitate to do so as there are many more people out there wanting to grab the least opportunity to enable them earn a KNUST certificate.

Your work ethic should set you apart from the others. Whether you like it or not, once you are an alumnus or alumna of this great University; people in this country and elsewhere will expect a lot from you. It is my hope that you will have a more positive attitude to life so that nothing becomes impossible and out of range.

Your morality or stand on moral issues should be beyond reproach. What is wrong should always be wrong and do not begin to look for words to qualify what is wrong or any wrong

doing. If you compromise your position on this, it could be the beginning of your otherwise promising future.

Finally, do not compromise your faith in God, your maker, and never forget your alma mater. You need to show your appreciation to your lecturers and parents who have toiled to bring you thus far. I believe that I speak for most parents when I say that they have really sacrificed to make your education possible. Please let us show our appreciation to them in the usual manner. You are also aware of how much your lecturers have toiled to refine and add value to your lives. Remember that, if today you are able to see further, then your lecturers have made it possible because they allowed you to stand on their shoulders. Let us also appreciate our lecturers in the usual way.

As you go out into the world, I wish you the best that you wish for yourselves. I pray that the good Lord will greatly bless you and keep you. May his face shine upon you and be gracious unto you. May he lift his countenance upon you and give you peace.

Thank you.

**PROFESSOR KWASI KWAFOADARKWA**  
**VICE- CHANCELLOR**

## **DAY ONE (AFTERNOON SESSION)**

### **SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE-CHANCELLOR OF KNUST ON THE OCCASION OF THE 44TH CONGREGATION CEREMONY HELD ON MONDAY 21<sup>ST</sup> JUNE, 2010 FOR THE COLLEGE OF ARCHITECTURE AND PLANNING IN THE GREAT HALL AT 1.00 P.M.**

#### **SALUTATION**

Your Majesty, Otumfuo Osei Tutu II, Chancellor of the University  
Your Excellencies, Members of the Diplomatic Corps  
Members of the Council of State  
Honourable Ministers of State  
Honourable Kumasi Metropolitan Chief Executive  
Chairman and Members of the University Council  
Past Vice-Chancellors and Pro Vice-Chancellors  
Colleague Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors from Sister Universities  
Registrar and Registrars from Sister Universities  
Colleges Provosts  
Deans and Directors  
Heads of Departments  
Nananom  
Guest Speaker  
Members of Convocation  
Alumni of the University  
Senior and Junior Staff  
Parents and Guardians  
Graduating Class of 2010  
Members of the Press  
Distinguished Invited Guests  
Ladies and Gentlemen

#### **INTRODUCTION AND WELCOME**

On behalf of the Chancellor, the Governing Council and the University Management, I would like to welcome you all to the graduation ceremony for our students from the College of Architecture and Planning. Just as we did last year, our Congregation ceremony for this year has also been planned over a period of six days without any break. You can imagine the implications of this arrangement on those of us in administration and the organisers of this programme, but this fades away in comparison with our joy to see these young ones graduate. I am excited to be here with you simply because I participated in your matriculation into this University four years ago and so it is also logical that as I come to the end of my tenure as Vice-Chancellor, I should also graduate you. This is refreshing for me because I have had the opportunity to preside over the affairs of one generation of KNUST graduates. These graduates are certainly amongst the best that you can get anywhere in the world and we certainly need to be proud of them as they have a major task to perform to contribute to Ghana's and Africa's.

Development through their efforts at poverty reduction, eradication of disease and hunger as well as the creation and maintenance of liveable urban and rural environments. As you can

all see, your parents, guardians, friends, extended family members, well-wishers and, in some cases, your life partners are here to witness this ceremony. Together with your faculty members, and all these stakeholders, I would like to take the opportunity to particularly congratulate you. Your graduation today has not come easy at all and I believe you can all recollect several moments of frustration some of which nearly resulted in your withdrawal from your respective programmes. It is for this reason that we all share in your success. Apart from this, society expects a lot from you and therefore you need to be prepared to contribute your quota to our development efforts, no matter where you find yourself, or are posted to, as you commence your professional careers.

I believe that most of us have wondered about why our development efforts may appear haphazard with no clearly discernible pattern at the district level. A lot of us may have also virtually forgotten the developmental role of our District Assemblies because they simply do not have the required professionals to facilitate this role. Some of us may also wonder why our settlements look unorganised, inefficient and often neglected. How come six out of ten buildings developed in our settlements are unauthorised? What future role, if any, do our settlements play in the overall national development efforts?

In a similar vein, we have also all complained about the types of buildings springing up in our settlements. Why do we, for example, introduce glass buildings and air condition them when this is clearly an expensive option? Why do we shut off natural lighting and introduce artificial lighting? Why are we unable to build appropriate structures for our own environment? It is unfortunate that we still have not been very successful in controlling the cost of our buildings through the introduction of more sustainable and cheaper options. Why are we still not providing alternative technologies in the development of structures in our towns?

Distinguished Invited Guests, it is these graduates that we are about to graduate who will help us find solutions to these myriad of problems and concerns expressed in the foregoing. I trust that they fully appreciate our concerns and will not abandon the ship to look for pleasure and enhanced economic opportunities elsewhere.

### **THE COLLEGE OF ARCHITECTURE AND PLANNING**

From an initial nucleus of a small school for the training of professionals to sit for the intermediate level examinations of the Royal Institute of British Architects and the Royal Town Planning Institute; this College has come very far. It now has programmes which are recognised by various professional bodies in the United Kingdom and several other Commonwealth countries. All its programmes are also now recognised by the relevant professional associations in Ghana and other several other African countries. The College is one of the smallest colleges in terms of student and faculty populations. From a modest faculty strength of 65 in 2009, the College has made only a marginal increase of 13 to a current figure of 72. This was made possible partly because of the absorption of some graduates from our local doctoral programme to join the faculty as well as the recruitment of more faculty members.

With respect to the College's student population, we had wanted to stabilise it at the 2009 figure of 1814 undergraduate students but with the introduction of new programmes in Real Estate as well as Construction Technology and Management and the heavy patronage received by the old programmes last year, we had to allow a slight increase of about 3%. I must add that it will be unrealistic to expect that we will sustain such increases over the

longer term without any substantial improvement in infrastructural facilities. This may partly explain why the College has, as its modest contribution, used part of its internally generated funds to complete a four-storey postgraduate block. Consequently, the University will also match the College's investment with the construction of an ultra-modern lecture theatre to be funded by GETFund because it is now one of our priority projects for 2010. It is also imperative that following several years of neglected maintenance of its structures, a proper schedule has been drawn and followed up to restore its buildings as a shining example for the other Colleges to follow. All told, the College offers some of the University's flagship programmes and it is my hope that this role will be deepened to enable the College better performs its statutory roles of research, teaching and service to the community.

## **RESEARCH AND RELATED ACTIVITIES**

Faculty members in the College are gradually dispelling the wrong, but widely held notion that, research should not occupy a centre stage in professional programmes on campus. In addition to their various professional practices, faculty members of the College are gradually building up an enviable research agenda. While most of their publications were conference proceedings, unlike last year, some of them found their way into refereed journals. In the Department of Architecture, for example, eight publications were produced out of which two were journal articles published in mainstream journals such as "Open House International" and the "International Journal of Ventilation". Needless to say, these classic works have had positive impacts on students in the Department. What is also interesting to note is that, the Department of Architecture also services other Departments including Building Technology, Planning, Land Economy and Civil Engineering. By extension, therefore, the research activities and generation of knowledge in their areas of expertise have contributed significantly to teaching and learning at KNUST. The Department of Building Technology which offers programmes in Quantity Surveying as well as Construction Management and Technology also made significant strides in its research activities. Two books on timber construction were published by Associate Professor Joshua Ayarkwa for polytechnic and university students as well as other scientists. These books have utilitarian values and would serve as useful sources for those in the field. Apart from the books, there were eleven additional publications from faculty members in this Department during the year under review, with three of them being conference proceedings. With the exception of a few articles in mainstream journals, the rest were publications of a rather general nature. It is understood that faculty members will now begin to target main stream journals within the construction industry.

The Department of Planning, on the other hand, released 20 publications comprising eight journal articles and 12 conference proceedings. As is the case in the other departments, faculty members in this department have also began pursuing collaborative research and joint publications. It does appear that some of these publications arose out of contract research projects. This may, therefore, be a very cheap and efficient way of data collection for academic research and publications. The two major research units in the College finally appear to have woken from their slumber because they pursued some interesting projects including support from TALIF to enhance its capacity to support postgraduate studies in housing. Other projects include the impact of road construction on livelihoods and settlements along the Accra-Kumasi and Kumasi-Offinso roads, as well as the socio-economic viability of the proposed Bui City. The Centre for Settlement Studies successfully ran two short courses on contemporary issues in research methodology and the use of factor analysis in social science and management research. It also continued with its training

programmes in building construction for building inspectors and construction technician engineers from various districts.

We all now recognise the tremendous role that the Centre for Settlement Studies could play in the training of postgraduate students simply because of its scope of research activities. It is for this reason that the Centre intends to mount a programme in Urban Management during the next academic year after approval by the appropriate University committees.

### **TEACHING**

The College continued with its unique way of teaching through a combination of lectures complemented with studio, workshops and field visits to bring students as close as possible to reality. Students' assessment of teaching appears to have generally improved even though there is still room for improvement; particularly, with respect to the utilisation of more teaching aids.

In view of the large class sizes, innovative ways have been devised to enable lecturers give students the needed attention. This has meant dividing classes into two or three and teaching them at different times instead of one combined class. Lecturers have, therefore, had to cope with increased workloads. There is also an urgent need to expand and improve on current laboratory facilities for architectural science, construction materials and structures.

The College continues to use the services of demonstrators but this has been limited somewhat. In view of the explosion in student numbers, it may be useful for the College to continue utilising more demonstrators. The College still has a few doctoral students who pursued their studies under the Vice-Chancellor's Initiative, most of whom have submitted their thesis and are awaiting their viva. Hopefully, they will join the faculty following their graduation.

### **PIPELINE PROGRAMMES**

As is to be expected, new programmes are introduced from time to time based on market trends and needs of society. Two years ago, the College introduced an undergraduate programme in Real Estate following the introduction of two programmes in Quantity Surveying and Construction Economics as well as Construction Technology and Management a year earlier. In the 2010/2011 Academic Year, in view of demands from industry, the College intends to introduce a new programme in Procurement Management at both the undergraduate and postgraduate levels. This is strictly to satisfy demands created in industry following the coming into effect of the Public Procurement Law and the need to have trained personnel at all levels and in virtually every organisation to facilitate the procurement process.

The College also intends to introduce new programmes in Public Policy and Urban Management. While the former would help in formulating and analysing policies at various levels and sectors, the latter would help us better manage our urban communities. Needless to say, these pipeline programmes are very important for the overall growth and development of our country.

### **COMMUNITY SERVICE**

As part of its mandate, the College performed services to various communities, ministries, departments and agencies. The College is currently in discussion with STX Ghana Limited, a South Korean construction firm, to provide consultancy services for the construction of

200,000 housing units in all regional capitals nationwide.

The Department of Planning is assisting the United Nations Fund for Population Activities with the preparation of a training manual on "Integration of Population Variables into Development Planning" for capacity building. The Department of Land Economy is supporting the Millennium Development Authority with its capacity building effort in respect of land administration and client service to improve staff performance of the reformed Lands Commission. The Department is also working with the Land Administration Project of the Ministry of Lands and Forestry in drafting a comprehensive Lands Act for the country.

During the period under review, the Centre for Settlement Studies completed its studies on the Socio-Economic Viability of the proposed Bui City for the Bui Power Authority as part of the preparatory works for its resettlement programme. In addition, the Department continued with its supervision of the construction of the Kwahu Praso Maternity Project. The Centre has also completed the Ascertainment of Customary Law Project which was commissioned by the National House of Chiefs and the Law Reform Commission and was funded by GTZ.

On the whole, the College has served the community well and it is anticipated that in future, it will even provide enhanced services to other stakeholders. We are fully aware of the tremendous benefits that such efforts would inure to the College through teaching.

#### **INFRASTRUCTURAL DEVELOPMENT**

In view of recent increases in the Colleges' student population over the years, efforts were made to enhance the level of service offered by existing facilities. In addition, the College added to its stock of infrastructural facilities by completing the construction of its postgraduate block which was commissioned by the Chancellor, Otumfuo Osei Tutu II, on 10<sup>th</sup> February, 2010.

The process of negotiating with the Ghana Commercial Bank for the building of a Lecture Theatre Complex for the College has stalled somewhat but we anticipate that work will soon start on this important project. In addition, considering that the College has not really benefitted from the GETFund since its inception, it is planned that another lecture theatre be included in our list of priority projects to be submitted to the Fund for funding this year.

In view of our limited resources, we have not been able to undertake any major maintenance activities in the College for a very long time. Consequently, it is planned that the College will begin to budget for maintenance of its facilities and appropriate use of the funds for that purpose.

#### **STATISTICS ON GRADUATING CLASS**

This afternoon, the University is presenting 570 students for graduation. Out of this number, 31 earned First Class degrees, 275 Second Class (Upper Division) degrees and 159 Second Class (Lower Division) degrees and 13 are graduating with Pass degrees. It is instructive to note that, this number constitutes the highest cohort ever to graduate from the College since its establishment. Among the graduands are 94 Architects, 112 Building Technologists, 102 Development Planners, 42 Human Settlement Planners as well as 128 Land Economists and Valuers.

While commenting on these overall figures, it must also be mentioned that they have all been well trained to the extent that they are now well prepared to go out into the real world to contribute their quota to national development. We therefore expect that they will make major contributions and positive impacts wherever they find themselves.

I am of the considered view that, if every District/Municipal or Metropolitan Assembly can employ some of the professionals we are graduating this afternoon, our settlements will gradually become better planned, our buildings will be better designed and constructed in the most cost-effective manner and the Assemblies revenues would be enhanced. In other words, we will have more livable environments for human habitation. At this point, it would be appropriate to offer a few words of advice to our graduands.

### **ADVICE TO GRADUANDS**

For the past four years, you have subjected yourselves to a particular way of thinking and training so you can solve society's problems from a specialised view point. In practising your profession, you need to be reminded that you are only a member of a larger team that is addressing society's problems. You therefore need to appreciate the roles of other specialists in the team.

As you leave the four walls of the University, please remember that without any guiding principle, you could get lost out there. The world is so large with several competing demands for your time. You need to make effective use of the time you have at your disposal. Otherwise, you will soon *see* that you need more than 24 hours in a day. Adopt a very humble attitude generally but especially, at work. This will enable you learn very quickly from those you meet at your various work places.

Finally, remember to maintain your current network of friends because very soon you will be attending the wedding of your friends and some of you may find your life partners from your cohort. When you have an opportunity to be the godfather or godmother of your friends children, please do not turn the offers down.

### **CONCLUSION**

As usual, I would like to thank parents and guardians as well as all those who contributed in one way or the other to bring our graduands to this stage in their lives. May the good Lord bless you and replenish whatever you have spent on the graduands several fold. I would also like to express similar sentiments to our lecturers who have added value to these young ones to bring them up to this level in their lives. Once again, God richly bless our lecturers. For our graduands, please remember that the end should always be better than the beginning.

May the good Lord bless all your skills and may He be pleased with the work of your hands. God richly bless you.

Thank you.

**PROFESSOR KWASI KWAFOADARKWA**  
**VICE- CHANCELLOR**



## **DAY TWO (MORNING SESSION)**

**SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE  
CHANCELLOR OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, KUMASI, ON THE OCCASION OF THE 44TH CONGREGATION  
CEREMONY FOR THE COLLEGE OF SOCIAL SCIENCES (ENGLISH, MODERN  
LANG UAGES, RELIGIOUS STUDIES, HISTORY AND POLITICAL STUDIES)  
HELD ON TUESDAY 22ND JUNE, 2010 AT 9.00 A.M.  
IN THE GREAT HALL**

### **SALUTATION**

Chairman of the University Council  
Honourable Ministers and Members of Parliament  
Your Excellencies, Members of the Diplomatic Corps  
Members of the Council of State  
Honourable Minister of State  
Honourable Kumasi Metropolitan Chief Executive  
Members of the University Council  
Past KNUST Vice-Chancellors and Pro Vice-Chancellors  
Colleague Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors from Sister Universities  
Registrar and Registrars from Sister Universities  
Provosts of Colleges  
Deans of Faculties, Directors and Heads of Departments  
Heads of Departments  
Nananom  
Guest Speaker  
Members of Convocation  
Alumni of the University  
Senior and Junior Staff  
Parents and Guardians  
Graduands  
Members of the Press  
Distinguished Invited Guests  
Ladies and Gentlemen

### **WELCOME AND INTRODUCTION**

As most of you would, no doubt be aware, Congregations are very important events on the calendar of most universities and they offer all stakeholders an opportunity to acknowledge and celebrate the fruits of their labours; be they parents or guardians, lecturers, friends and sympathisers. In other jurisdictions, such occasions are known as commencement; literally marking the end of your studies and the beginning of your entry into the world of work but they all carry the same import. In the generic sense, they are occasions when the entire University community, alumni and various stakeholders come together, or congregate to receive report by the Vice-Chancellor. It is in this same vein that we have also met to receive the Vice-Chancellor's report on the affairs of four of its constituent departments this morning.

In recent years, it has not been possible for the entire University community to meet in this hall to receive such a report, primarily, on account of the sudden explosion in student

numbers which makes it difficult for all of us to congregate only once. Consequently, this year Congregation has had to be organised over six days and 12 sessions. The programme kicked off yesterday during which time we graduated the first batch of students in the Faculty of Social Sciences with specialisations in Economics, Geography and Rural Development, Sociology and Social Work as well as Culture and Tourism in the morning with the College of Architecture and Planning in the Afternoon.

Following this morning's programme, the Business School and the Faculty of Law will present their students for graduation in the afternoon and also receive another report from the Vice- Chancellor. This year's Congregation will end on Saturday with the School of Graduate Studies in the morning and the College of Health Sciences in the afternoon.

### **RESEARCH IN THE FOUR DEPARTMENTS**

Yesterday, a lot was said about the College of Art and Social Sciences, in general, and the departments which presented students for graduation in particular. In view of this, it may not be necessary to repeat the same things at this gathering. However, I would like to mention that, in general terms, our faculty members teach to the satisfaction of all but considering that it is our research activities that enhance the University's visibility and inform our teaching, I would like to concentrate on these activities and also say a few words about the departments' service to the community.

### **DEPARTMENT OF ENGLISH**

During the year under review, no journal publications arising out of research were produced from the Department but there are several interesting and relevant on-going research projects the outcomes of which will benefit the basic skills of written and oral communication as well as impart other language skills in our university.

Mr. F.E. Kofifah continued his research with his collaborators in literature and the teaching of English at the pre-university level. Another interesting research project on "The Folktale: Its Impact on the Socio-Cultural Life of the Dagomba" by Mr. Julius Kuutiero is nearing completion. In addition to other research projects, Miss Philomina Abaka is examining the relevance of the study of Literature in English in a science and technology university such as KNUST. Outcome of this research project could be used to enhance the teaching of the compulsory second year course in Literature in English here at the KNUST.

Other research projects in the Department of English set out to contextualize the use of the English Language such as "The English Language in Ghana Today - Street Language and the Move to Nativise it" by Mr. K.O.A. Armah. His other work involves a topological interpretation of Ghanaian hip-life songs. These research projects are so relevant for us as a nation because they will help us expand our frontiers of knowledge regarding the use and application of the English Language; especially, in a University such as ours. Mr. E.Y. Akpakli's works on "The Artist and Their Works" together with "Ghanaianism and Deviant Form and Steps to Attaining Communicative Competence" also fall into this category, just as Mr. Peter Awuah-Darteh's work on "The Search for a National Language - The Ghanaian Situation".

Two retired staff on contract are indeed doing their best to mentor the younger ones in addition to pursuing their own research interests. All lecturers in the Department have fairly heavy teaching workloads and so in the year ahead of us, if we are able to employ more

lecturers, their workloads would be decreased so that they can spend a little more time on their research.

### **DEPARTMENT OF MODERN LANGUAGES**

There are two sections in this Department, namely; French and Akan. The Akan section is fairly new and therefore it has not been able to ground itself properly with regard to research. On the other hand, the French Section has been well established and, therefore, is very well engaged in some meaningful research works.

In addition to its teaching, research and service roles, the Department organized an introductory course for beginners in Chinese Language at KNUST. Patronage of this basic Chinese proficiency course was very good and a total of 200 students and staff registered for it even at short notice. In future, it is intended that this course will be open to others, especially, the business persons, to enable them enhance their proficiency in the Chinese language. Akan is also gradually making an impact as it is offered as a service course at the School of Medical Sciences and was patronized by 23 students last semester. The Department has also mooted the idea of establishing a translation bureau to offer proficiency courses in Akan and Chinese as sources of income generation.

Research areas in the Department cover a wide spectrum of subject areas. Apart from those dealing with language and literature of the two languages, there are others that deal with aspects of culture. For example, Professor K. Opoku-Agyeman, Dr. Charles Marfo and Mr. Joseph Nsiah are working on "The Cultural, Literary and Linguistic Significance of Adinkra symbols". Professor Opoku-Agyeman's work on "Traditional Science - A Case Study of Akan Myths and Religion", "The Use of Symbols as a Vehicle for Communication among Akans" as well as the "Changing Fortunes of the Praise-singer", which he pursued with Mrs. P. Mireku- Gyimah, have all been accepted for publication.

Also of major significance is the work by Professor Opoku-Agyeman, Lawrence Tuffuor, Oteng Preko and Mr. Nartey on "Environmental Science and Akan Traditional Beliefs". Dr. Charles Marfo and Philomena Abaka's publication in the *Journal of Language Technology and Entrepreneurship* in Africa on "Expressing Culture through Drama" is worthy of mention.

Apart from all these publications, faculty members attended 11 conferences during which time papers were presented.

### **DEPARTMENT OF RELIGIOUS STUDIES**

The Department of Religious Studies is one of the new departments in the College of Art and Social Sciences and yet it has grown steadily to stabilize its position. It has a major role to play in a science and technology university such as KNUST to the extent that it introduces morality and ethics into our academic programmes. As a department, it also exposes human development with special emphasis on how norms of behaviour are derived and applied while examining faith and belief in a world characterized by scientific modernity.

As a relatively new and small department, its research record has had a major boost. The major research contribution from the department thus far, has been its conference on "Science and Religion" proceedings of which were published by the University Printing Press. The publication is a well edited collection of papers that establish the nexus between science and religion and how this should influence our work as a university of science and

technology. Indeed, it clearly establishes the fact that science and religion are closely related and, hence, each should reinforce the other.

Other publications during the year under review include a book chapter in "The Mustard Seed of Religious Tolerance and Peaceful Co-existence in Ghana" by Rev. Dr. Nathan Iddrisu Samwini. In addition to these publications, faculty members attended several conferences, presented keynote addresses at various national functions and continued with their pastoral duties. The department's performance has been encouraging and its future prospects appear bright in a university of science and technology provided we can cap the numbers that enroll in the undergraduate programme.

### **DEPARTMENT OF HISTORY AND POLITICAL STUDIES**

This Department of History and Political Studies is fairly well patronized by students and during the year under review, several faculty members pursued their research interests and attended conferences, workshops and seminars.

Dr. Wilhelmina J. Donkoh attended the International Seminar on "Africa, Europe and the Americas 1500 - 1700s" sponsored by the Omohundro Institute of Early American History and the Institute of International and Advanced Studies during which time she presented a paper on "Slavery, Slave Trading and Memories - A Reconstruction of Social History in Asante, Sewhi and Bono Ahafo Areas". Over the 14 - 17th December, 2009 period, she also presented a paper on "Heritage, Economy and Political Control- Financing a Modern Monarchy Through Reinvention of Traditional Measures in Asante" at an International Conference on Heritage. Her chapter titled, "Female Leadership among the Asantes" was published in the book entitled, *Societies of Peace: Matriarchies Past, Present and Future*.

Mr. Vincent Dodoo attended the World Academy of Science, Engineering and Technology Conference in Paris and presented the following two papers which have since been published as part of peer reviewed proceedings:

- a. "The Tradition of Cooperation in the North Atlantic; and
- b. "Commune to Commune and the Evolution of the Cooperative State".

Mr. Mohammed Abass participated in a Stakeholders Consultative Forum on Accelerated Decentralisation in Ghana in Sunyani where he presented a paper on "Twenty Years of Decentralised Local Governance and Assembly System in Ghana".

The Centre for Intellectual Renewal in Accra has endowed the Department with the Peggy Appiah Prize for excellent work in History. Two graduating students, Mr. James Kofi Quartey and Miss Juliet Oppong-Boateng, have been nominated as first recipients and will receive their awards at a brief ceremony later this afternoon.

The Department may not have generated several journal articles or research publications during the year under review but it had a very successful academic year with fruitful and rewarding programmes. What is also commendable was the participatory manner in which most activities were evolved and carried out with the involvement of students.

### **STATISTICS ON GRADUATING CLASS**

This morning, the University is presenting 331 students for graduation. The number comprises 7 with First Class degrees, 197 with Second Class degrees (Upper Division), 125

with Second Class Degrees (Lower Division) and the remaining 2 are going home with Pass degrees.

### **SERVICE TO COMMUNITY**

Apart from their busy schedules of teaching and research, faculty members served in various capacities both within and outside the University. Some of these include serving as Chief Examiner in French with the West African Examinations Council for Senior High Schools, Translators and Interpreters, Board Chairmen of various institutions and External Examiners to various universities.

Others include serving as resource persons at various workshops and training programmes as well as reviewers of various local and international journals. Increasingly, we are also experiencing a situation where more faculty members are being invited to serve as Patrons and guest speakers at speech and prize-giving days of various institutions. This has been facilitated partly as a result of the university's enhanced visibility and ranking.

It is our hope that every faculty member will use his or her skills and capabilities to serve either the local or university community, as well as the national and international communities in the year ahead of us particularly as the University pursues strategies that will improve teaching and learning as well as research.

It is now about time to turn my attention to our graduands most of who have been beneficiaries of the wider services provided by faculty members even outside the classroom, laboratory or lecture theatre.

### **ADVICE TO GRADUANDS**

Let me first of all congratulate you on your achievement thus far. You would appreciate that you are indeed privileged considering that there are countless others both in the country and other African countries that have not had the opportunity of attending College. This is why you need to be advised so you can appreciate your relatively advantageous position and contribute your best to the growth and development of our countries.

You are graduating at a time when the world is characterized by intense competition, shrinking resources, lay-offs, down-sizing, mergers and environmental degradation; amongst others. The education you have received in the University should put you a shade ahead of others who were not privileged to attend KNUST. As a result of this, I expect each and every one of you to take advantage of any opportunity that comes your way and make excellent use of them. As a result of the unique education that you have received at the KNUST, I expect all of you to be able to deal with the situations that come your way on a daily basis. Once you land a job, settle down quickly and adjust to your new circumstances. Remember that you have received a solid educational background to enable you pick up the rudiments and work ethics wherever you find yourself. On the other hand, if you enroll in any new graduate programme or even employ others, these words of advice will still be appropriate.

I trust that most of you would stay on in this country to pay back your dues rather than pack bag and baggage to go elsewhere with very few opportunities for you. You can make it in this country. Please be reminded that if your lecturers had opted to live in those countries, who would have taught you? Can I suggest that we stand and show our appreciation to our lecturers in the usual manner by clapping. In a similar vein, please also appreciate your parents and guardians who have sacrificed so much to enable you achieve this success.

Finally, as I bring my report to an end, I would like to evoke God's blessings on you. Remember to obey God so all His blessings will be yours. The Lord will bless your towns and fields. The Lord will bless you with many children, with abundant crops and with many cattle and sheep. The Lord will bless everything you do!!

Thank you.

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE- CHANCELLOR**

## **DAY TWO (AFTERNOON SESSION)**

### **MOTIVATIONAL SPEECH DELIVERED BY MRS. JOSEPHINE ADAMS ON THE OCCASION OF THE 44TH CONGREGATION OF KWAME NKURUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI HELD ON TUESDAY, JUNE 22, 2010 FOR THE COLLEGE OF ART AND SOCIAL SCIENCES (SCHOOL OF BUSINESS AND FACULTY OF LAW) IN THE GREAT HALL**

The Chancellor, His Royal Majesty, Otumfuo Osei Tutu  
Your Excellencies, Members of the Diplomatic Corps  
Nananom  
Members of the Council of State  
The Vice-Chancellor  
Lecturers and Professors  
Parents and Guardians  
Graduands  
Distinguished Invited Guests  
Ladies and Gentleman  
All protocols observed

I deem it a great privilege and an honour to be invited to give a motivational speech during this August Occasion - 44th Congregation of this great institution and to share a few thought with our brothers and sisters who are graduating today. Thank you very much for inviting me and I give God the glory, honour and thanks for this memorable day!

To our graduands, please accept my CONGRATULATIONS! Ayekoo for the good work done, in the face of the accommodation challenges, financial difficulties etc. you have made it and we are really proud of you!

A quick reflection into the days back in the MBA class brings into memory: intensive academic work, frequent group work and presentations and other challenges (e.g. financial constraints, resources constraints etc) which at that time made the program seem very stressful and a kind of a herculean task, but now I look back, I know it was for our own good. Being an MBA graduate of the KNUST Business school has equipped me, with the ability to think, analyze situations and make good judgment. It has also helped me in managing people since I now see staff as the critical success factor of every institution. (CSF). Furthermore, it has improved my managerial abilities and skills and has helped me to improve my perception about business, strategic and financial issues.

I am happy to assure you that, this university does equip you with what it takes to face the world out there and be successful. However a lot more depends on you. Graduation, I guess you have a lot of questions going through your minds, such as after graduation what next?

How can I succeed in this dynamic business environment full of opportunities and threats etc? In all these situations, you will be challenged to make choices or decisions. And I am of the belief that the training you have received at KNUST has equipped you with knowledge in your respective disciplines and also the ability to think, analyze situations and make good judgments.

Remember success is not instant but see it as a process. However, I must say that success also

depends on your values or principles that guide you in life.

Let me share three values or keys that have helped me and which will help you if you apply them and which I believe will also make you succeed in life:

Faithfulness; having the Right attitude and Passion

1. Faithfulness: it is a requirement for every manager or person who wants to make it in life and also to get to the very top. It is faithfulness that will make you succeed. In fact, with lack of faithfulness, all the degrees and qualifications are useless. -Faithfulness here means being loyal, honest, reliable. Thus you must exhibit faithfulness in your office, in your business transactions, to your finances, at homes etc. Maintain personal integrity and be an example to others.

2. Right attitude: A major issue confronting us as a nation is our attitudes. I must say that what really distinguishes the white people from us is our attitude. As the popular adage goes, "your attitude will determine your altitude". It must be noted that the sum total of the alphabets in this very important word "attitude" sum up to 100. Thus with the right attitude, the sky will not be the limit but will be the beginning. Examples of positive attitude includes honesty, reliability, and hard work, knowing how to talk to customers, self-discipline, and timeliness, etc.

In fact, a study was conducted in some developed countries (e.g. U.S, U.K etc) on "characteristics of successful business people. The Research findings showed that successful business people have these characteristics:

- 25% is due to their education
- 15% is due to the skills they have
- 60% is due to their attitude

Remember excellence is not an act but a habit so strive for it and have a positive attitude.

3. Passion: "Love what you do or do something else". It is that passion that will drive you to succeed, as you have already done by just being here. Your heart, your passion is your drive, and your education and the right attitude is your key.

Quote from the internet:

- "You'll never achieve real success unless you like what you are doing.
- No one has ever succeeded in a line of endeavour which they did not like.
- Your chances of success are directly proportional to the degree of pleasure you derive from what you do.
- If you are in a job you hate, face that fact squarely and get out.
- It's better to be a failure in something you love, than attempting to be a success in something you don't. Don't set compensation as a goal.
- Find the work you love and the compensation will follow
- The more you love what you are doing the more successful it will be for you."

To the university, I wish to recommend that it should be linked more to the industries to offer avenue to students to practice what they study and also undertake more exposure visits to other foreign Universities to boost the confidence levels of most graduates. Since in reality most of the courses studied here are not too different from the Universities.

Before I conclude, I must mention again that there will be challenges, but these challenges make the success worth it, and if you make God your source, He will ensure that you have



good success, I would therefore love to leave you with a scripture in the Bible that keeps me motivated and has made me what I AM TODAY in addition to my MBA qualification.

2<sup>nd</sup> Peter 1:5-8 (KIV) ... Giving all diligence, add to your faith, virtue, to virtue, knowledge, to knowledge, temperance/self control/ to temperance, patience, to patience, godliness, to godliness, brotherly kindness; and to brotherly kindness, charity/love. If these things be in you and abound, they make you that ye shall neither be barren nor unfruitful.

Finally, my dear Graduands, I encourage you to use these values/keys in addition to your education as a springboard to launch yourself into your future and guide you throughout your life and *with God on your side, it will be well with you.*

Mr. Chairman, I want to take this opportunity to thank all our wonderful lecturers for their immense contributions in making us what we are today.

To all you, I say thank you for having me and God bless you all.

Long live Asantehene!  
Long live KNUST!  
Long live Ghana!!!!!!

**MRS. JOSEPHINE ADAMS**  
**ALUMNUS**

**SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE-  
CHANCELLOR OF THE KWAME NKRUMAH UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, KUMASI ON THE OCCASION OF THE 44TH CONGREGATION  
HELD IN THE GREAT HALL ON TUESDAY, 22ND JUNE, 2010 AFTERNOON  
SESSION FOR THE FACULTY OF LAW AND SCHOOL OF BUSINESS**

**SALUTATION**

Your Majesty, Otumfuo Osei Tutu II, Chancellor  
Chairman of the University Council  
Honourable Minister of Education  
Honourable Minister of Information  
Honourable Regional Minister  
Honourable Deputy Minister of Justice and Attorney General  
Honourable Ministers of State  
Your Excellencies, Members of the Diplomatic Corps  
Nananom  
Members of the Clergy  
Colleague Vice-Chancellors  
Past KNUST Vice-Chancellors and Pro Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors of Sister Universities  
Registrar and Registrars of Sister Universities  
Guest Speaker  
Members of the University Council  
Provosts  
Deans and Directors  
Heads of Department  
Guest Speaker  
Alumni of the University  
Members of Convocation  
Senior and Junior Staff  
Excited Parents  
Graduands and KNUST Class of 2010  
Members of the Media  
Distinguished Invited Guests  
Ladies and gentlemen

**INTRODUCTION AND WELCOME**

I would like to welcome you to the 4th session of the 44th Congregation Ceremony. As most of you may be aware, this year's programme has been scheduled into 12 sessions, starting from Monday through to Saturday. This arrangement was experimented last year and it proved to be very convenient as it allowed as many parents, guardians and well wishers as possible to witness the graduation of their beloved ones. We are gathered here this afternoon to witness the graduation of students from the Faculty of Law and School of Business of the College of Art and Social Sciences.

**THE COLLEGE OF ART AND SOCIAL SCIENCES**

The College which comprises of five academic faculties, namely: Social Sciences, Industrial Art, Law, Fine Art and School of Business, and a Research Centre, the Centre for Cultural and African Studies runs twenty-one departments and services the entire University. The

understanding is that a Science and Technology University needs a significant dose of the humanities and social sciences to prepare graduands for the world of work. This rationale drives the growth of the liberal arts programmes. Over the years, the College has turned out thousands of graduates some of who now occupy very sensitive positions in the banking, commercial, industrial, business, legal, economic and other sensitive sectors of the economy.

In course of the year, significant achievements have been made in areas of research and publications, industrial and professional linkages, capacity building, infrastructure development, teaching methods, income generation, expansion of library facilities, student organization, sports and games, exhibitions, participation in local and international conferences.

The forum created for the presentation of research findings, the Intra-College Seminars, is yielding results. There is a healthy competition among the faculties for slots for the presentation of seminars. The College is in the process of publishing the revised seminar papers. Besides, some authors have managed to refine some presentations for publication in peer-reviewed journals. In course of the year over 35 papers were published in peer-reviewed journals of significant impact factor. A significant development in preparing an enabling environment and motivation for publication was the launch of the maiden College Journal, CASS Journal of Art and Humanities (*JAH*), which, the reviewer commends as one of the best in the country. Structures are being put in place to ensure its sustainability.

The College continued with its remarkable performance of establishing linkages with industrial and professional organizations, locally and internationally. Memoranda of Understanding were established by the University through the instrumentality of the College with Gerrit Rietveld Academie, Netherlands; Georgia Southwestern State University, USA; and Bergische Universitaet Wuppertal, Germany. Locally, MoUs were signed with EPP Books and Services and Ghana Trades Union Congress and Development Dimensions Limited. Arrangements are far advanced for the signing of MoUs with Bowie and Howard Universities, both in the United States of America. There has been an improvement in capacity building to ensure efficient and effective rendering of academic services.

Faculty members make strides in improvement in pedagogy. Most members prepared modules on various courses for students. Students were guided to search for information through rigorous library search instead of the normal spoon-feeding of dictating lecture notes. The use of power- point in teaching has been adopted by several departments. Arrangements are in place to ensure that all teaching will be done through power-point presentation.

## **FACULTY OF LAW**

Established in 2003, the Faculty of Law currently offers undergraduate degree programmes leading to the award of Bachelor's Degree in Law (LLB) for three categories of students:

- a. 4-Year LLB undergraduate students;
- b. 3-Year LLB undergraduate students;
- c) 4-Year LLB undergraduate (Part-time) students.

June, 2010

The LLB programme is a taught course with emphasis on both theory and practice, Moot courts, field trips and vacation training programmes are embarked upon to help enrich students' practical experience and orientation. The courses are designed to equip students

with a broad and comprehensive legal background which will enable them, on graduation, take up jobs in the legal services.

The Faculty also admits students from jurisdictions other than Ghana with Nigerian students constituting the majority of international students. For the 2009/2010 academic year, fourteen (14) international students were admitted into the Faculty.

I am happy to announce that plans are far advanced to start the LLM Programme next academic year as a measure to increase the staff strength of the Faculty. The Faculty has an efficient academic staff consisting of one (1) Professor, one (1) Senior Lecturer, twelve (12) Lecturers and four (4) Teaching Assistants. The latest addition to the academic staff is Miss Ewura Esi Nketsiaba Asmah who has recently been appointed a Lecturer to the Faculty. She is a pioneer of the post-first degree holders admitted to the Faculty for the LLB and a recipient of Fordham University scholarship to pursue LLM (under which she obtained her LLM degree). Four (4) lawyers and products of this Faculty namely: Mr Samuel Adarkwa Boadi, Mr Richmond Numbo Saaka, Miss Elizabeth T. Hassan and Miss Doreen Adoma Antwi have been engaged this academic year as Demonstrators to support the teaching staff. Four (4) more lecturers are expected to join the teaching staff by close of this year.

Apart from teaching, all the lecturers have continued to contribute to publications in refereed journals. The KNUST Law Journal is still in publication and has come out with its fourth issue.

The Faculty continues to offer their skills and expertise, through consultancies, legal advice and training programmes, to individuals and organizations, Almost all the lecturers have this year served on investigation committees set up within KNUST. Individual members of staff also continue to offer various services to organizations outside the university community. In particular, the Dean of the Faculty was made a Member of the General Legal Council and also serves on the Professional Legal Education Committee of the Council. He also serves on the Joint Customary Law Project of the National House of Chiefs and the Law Reform Committee. In addition, the Faculty offers service courses to nearly every other Faculty/Department or Unit of the University, teaching courses such as Engineering/Construction Law, Intellectual Property, Contract Law and Environmental Law.

Furthermore, Mr. Ernest Kofi Abotsi, lecturer in the Department of Public Law made a presentation during the 2009 Annual Lecture under the auspices of CDD-Ghana and

Friedrich Naumann Foundation (FNF). His presentation has been published in the March 2010, Vol. 2 edition of the Constitutional Review Services published by the Ghana Centre for Democratic Development (CDD-Ghana) under the title "Strengthening the Liberal Roots of the 1992 Constitution: An Agenda for Reform".

### **ESTABLISHMENT OF A CAMPUS OF GHANA SCHOOL OF LAW**

Following series of discussions with the General Legal Council, the KNUST and University of Ghana have been considered for the establishment of branches of the Ghana Law School from October, 2010. To this effect a three-member delegation of eminent lawyers was appointed by Her Ladyship, the Chief Justice of the Republic of Ghana to assess the facilities for the take off of the School. The team was made up of Her Ladyship Justice Sophia Akuffo

of the Supreme Court, Mrs Marietta Brew Appiah Oppong of the General Legal Council and Mr. G.A. Sarpong, Director of the Ghana Law School.

As part of the preparations towards the smooth take off of the School, the Faculty has partitioned some of its classrooms to comfortably seat students during lectures. In addition, the Faculty's state of the art auditorium would be used for seminars and Moot Court Sessions. The University has made available some offices for the Visiting Lecturers in a newly. Built Examinations and Offices Complex. The General Legal Council has interviewed lecturers for appointment on part-time basis. We are reliably informed that, in addition, two permanent staff would be recruited soon to start the programme. Furthermore, Judges of the appellate courts in Kumasi; namely the Court of Appeal and High Courts would be recruited to examine moot sessions in the legal advocacy courses. The students would have access to all services rendered in the Law Library, including photocopying and the library's own database. Microfilm, microfiche equipment and commercial databases would be developed as a basis for a Ghanaian legal information service.

The University has allocated a site for the construction of additional structures to accommodate the demands of the Law School.

### **BENEFACTORS**

The Faculty is greatly indebted to the following for the donation of assorted books worth over Fifty Thousand Dollars (US\$50,000.00):

- Institute of Advanced Legal Studies, University of London;
- Canadian Lawyers Abroad and University of Ottawa;
- Sheikh Osmanu Shaributu (Chief Imam);
- Readwide Ghana Ltd; and
- Professor Mary James Mossman of Osgoode Hall Law School.

### **SCHOOL OF BUSINESS**

The School of Business consists of five academic departments, namely: Department of Managerial Sciences, Department of Accounting and Finance, Department of Marketing and Corporate Strategy, Department of Services Management and Department of Information and Decision Sciences. The School services the entire University in the area of entrepreneurship. To constantly update their knowledge in their respective areas of specialisation, 'the lecturers do a lot of research, present papers at conferences both locally and internationally and publish their research findings in refereed journals.

Three Lecturers from the School of Business attended the 2<sup>nd</sup> Cranfield and Cardiff International Conference on Humanitarian Logistics in the United Kingdom, held on the 25<sup>th</sup> and 26<sup>th</sup> of March, 2009. Some members of the Department of Information Systems and Decision Sciences

attended a workshop on Procurement and Inventory Management organized by Ghana Supply Company Limited on 17<sup>th</sup> and 18<sup>th</sup> of September, 2009 in Takoradi. Mr. Jonathan Annan delivered a paper on "Evaluation of Needs Assessment, the case of NADMO on 2007 Northern Ghana Floods" while Dr. F. T. Oduro also delivered a paper on "Needs Assessment in the Delivery of Relief to the 2007 Northern Ghana Floods, the Case of World Vision Ghana".

Mr. David Asamoah of the Department of Information Systems and Decision Sciences participated in a two-day programme on the inauguration and workshop of the National Platform for disaster risk reduction and climate change risk management. This was held on the 14th and 15<sup>th</sup> of October, 2009 at the Accra International Conference Centre. As a result of their visibility and performance, KNUST School of Business was nominated to serve on the technical committee. During the year, the Department of Information Systems and Decision Sciences organized a workshop on Total Quality Management and the Resource Person was Professor Emeritus Abraham Bobas, University of Waterloo, Canada, and President of the Statistical Society of Canada. In addition, seven members of the School were trained as Career Direct Consultants in the application of Career Direct Software by a team of South African Consultants.

### **NEW PROGRAMMES OR COURSES INTRODUCED**

Dr. W.A. Owusu-Ansah of the School of Business has been appointed as the first ever Co-ordinator for Entrepreneurship to spearhead and provide meaningful leadership towards Entrepreneurship Co-ordination and Development at KNUST. Currently, the entrepreneurship programmes on campus, which are ad hoc and un-coordinated, are being reviewed to serve the University community and beyond. This is against the backdrop of the immense role of entrepreneurship education and enterprise development in a rapid socio-economic transformation of any society. Comprehensive innovative entrepreneurship policies and programmes would be out-dooed shortly to revolutionise entrepreneurship education and enterprise development on campus, provide a meaningful impact on university community and other stakeholders and the Ghanaian society at large.

### **COLLABORATIONS WITH INDUSTRY AND EDUCATIONAL INSTITUTIONS**

During the year under review, KSB established an International Collaboration with the Aalborg University, (AAU) Denmark, on students exchange and staff capacity building. The Marketing Department intends to use this collaboration to run a Joint Degree MBA in International Business in conjunction with Centre of International Studies, Aalborg. Under the programme, MBA students who choose this option will do third Semester in Denmark. During the same period the School signed MoUs with TU Bergakademie Freiberg and TASMACH School of Business, University of London.

On the 19<sup>th</sup> of September, 2009, the Executives of CILT Ghana visited the new premises of School of Business (KSB) to acquaint themselves with the state of the School's facilities. This was part of their accreditation process. They finally concluded that the School had excellent facilities for teaching and learning and therefore promised to work harder to ensure that KNUST School of Business is accredited to run all the CILT courses in due course. After the inspection of the facilities, the executives of CILT together with the teaching staff of KSB met the Vice Chancellor of KNUST at the Dean's office where they had fruitful discussions. The discussion centred on partnership with KSB and CILT in the teaching of Logistics and Transportation Management.

### **TRAINING PROGRAMMES**

The Department of Marketing and Corporate Strategy in conjunction with the Human Resources Development Section organized a two-day workshop with the theme "Effective Customer Service and Image Building in a Public University" for 35 Senior Administrative Staff of KNUST. The two-day workshop formed part of the Department's extension services to the University. The facilitators were Mr. Samuel Yaw Akomea, (Head of Department), Dr.

Kofi Poku, and Mr. Bylon Abeeku Bamfo. Such initiatives have been planned ahead to cover other focus groups in KNUST.

### **CENTRE FOR MICRO, SMALL AND MEDIUM ENTERPRISES**

The Department of Marketing and Corporate Strategy has also submitted a proposal on the establishment of Centre for SMEs to the College Board for onward submission to the Planning and Resources Committee. The Centre aims at establishing the link between KSB and SMEs as well as with other collaborative institutions of development. Other strategic partners, such as the Ministry of Trade and Industry, World Bank, and German Embassy and Banking institutions are being briefed.

### **INTERNATIONAL COMPETITION**

Five final year undergraduate students from the Department of Marketing and Corporate Strategy participated in an International Marketing Simulation Competition organized by the Asper School of Business, University of Manitoba, Canada. The competition which spanned October to December, 2008, offered the students the opportunity to practice with the simulation software which is very expensive to acquire. Two of the students represented the team during final presentation at Winnipeg, Canada. In all, 18 Business Schools from various parts of the world (North and South America, Europe, Asia and Australia) participated. So far, in the 27 years of the competition, KNUST School of Business is the first Business School from the entire African continent to make it to the finals. The team won a plaque as "A Promising Team". The Provost, (CASS) has since congratulated the team.

### **ESTABLISHMENT OF CENTRE FOR SUPPLY CHAIN LEADERSHIP**

On 15<sup>th</sup> April 2010, the Department of Information Science and Decision Science (ISDS) organised a Public Lecture to launch and establish the West African Institute of Supply Chain Leadership (WAISCL), which aims to provide innovative, practical and tailored supply chain training and sector specific research.

To boost the capacity of staff, the School is partially assisting three lecturers of the School to pursue their PhD programmes in various institutions in Europe.

### **BENEFACTORS**

Several agencies, institutions and individuals have contributed significantly towards the course of the Business School. To all such partners who through their benevolence, *KSB* was able to improve upon their lot, we are very grateful. Ladies and Gentlemen, allow me to mention two of our benefactors.

1. Tasmac London School of Business has given a full scholarship worth six thousand nine hundred and fifty British pounds to the best graduating student in the Business School for the 2009/2010 graduating year. May the representatives of the school stand for us to be acknowledged.
2. Over Five Thousand Dollars (US\$5,000.00) worth of books were donated by Professor Yaw Debrah, moderator and external examiner for the School of Business.

### **STATISTICS ON GRADUATING CLASS**

This year the Faculty of Law and the School of Business are presenting 361 students for graduation. The number comprises 37 with First Class degrees, 205 with Second Class degrees (Upper Division), 114 with Second Class Degrees (Lower Division) and the remaining 5 are going home with Pass degrees.

## **ADVICE TO GRADUANDS**

As you leave this noble University, bear in mind that you have been holistically prepared to face the challenges of these days. The world is gradually gravitating towards economic doldrums and Africa is the worst affected. We are talking about human rights abuse, social injustice, labour unrest and disputes, high inflation and high interest rates, to mention a few. Remember that most of the solutions to these challenges lie in your hands. Do not be limited to what you have been taught only but always think outside the box and that will make you outstanding in life. I know most of you will aspire to become future lawyers, managers, and businessmen and women. Whichever field of endeavour you choose you must excel, eschew mediocrity, be honest and diligent at your work places and project yourselves above others and in so doing you would have become good ambassadors of KNUST. I would encourage many of you to pursue further studies to attain your terminal degrees so you can come back to impart what you have acquired to your younger siblings who would be thirsty for that knowledge. The law graduands should take the opportunity of the LLM soon to be introduced to upgrade yourselves. As you may be aware, for lack of adequate number of law lecturers we are compelled to radically reduce the number of students admitted into the Law Faculty for the 2010/2011 academic year. This in a way impacted on the other areas in students' intake. There is, therefore, the need to take on more lecturers to enable us admit more students in future.

## **CONCLUSION**

In conclusion, I would like to thank your parents, guardians, sponsors, friends and relatives for the moral and financial support they extended to you during your studies at KNUST. May the good Lord replenish whatever they expended on you. I know because of you some slept on empty stomachs a few times and others forfeited their pleasures to cater for you. I say ayekoo to each and every one of them. Your stay on campus would not have been that successful had it not been the great efforts your lecturers put in right from your first year to the final year. Bravo to them and all the support staff for their relentless effort in training you to be who you are today.

Finally, remember that live is how you live it. Each of you has a tremendous role to play in society. It is my fervent prayer that the Lord bless you wherever you find yourselves. May you be heads and not tails. May you stand out among your peers. Know your creator and honour him in all your endeavours and it shall always be well with you. Go into the world as people who have been blessed by the Lord.

Thank you.

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE-CHANCELLOR**



## **DAY THREE (MORNING SESSION)**

### **SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE-CHANCELLOR OF THE KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI ON THE OCCASION OF THE 44th CONGREGATION HELD IN THE GREAT HALL ON TUESDAY, 23<sup>RD</sup> JUNE, 2010 MORNING SESSION FOR THE FACULTIES OF FINE ART AND INDUSTRIAL ART OF THE COLLEGE OF ART AND SOCIAL SCIENCES**

#### **SALUTATION**

Your Majesty, Otumfuo Osei Tutu II, Chancellor  
Chairman of the University Council  
Honourable Minister of Education  
Honourable Regional Minister  
Honourable Ministers of State  
Your Excellencies, Members of the Diplomatic Corps  
Nananom  
Members of the Clergy  
Colleague Vice-Chancellors  
Past KNUST Vice-Chancellors and Pro Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors of Sister Universities  
Registrar and Registrars of Sister Universities  
Guest Speaker  
Members of the University Council  
Provosts  
Deans and Directors  
Heads of Department  
Guest Speaker  
Alumni of the University  
Members of Convocation  
Senior and Junior Staff  
Excited Parents  
Graduands and KNUST Class of 2010  
Members of the Media  
Distinguished Invited Guests  
Ladies and gentlemen

#### **INTRODUCTION AND WELCOME**

I warmly welcome you to the 5<sup>th</sup> session of the 44th Congregation Ceremony as the Vice-Chancellor of this University. As most of you may be aware, this year's programme has been scheduled into 12 sessions, starting from Monday through to Saturday. We have resorted to this arrangement so that as many parents, guardians and well wishers as possible will be able to witness the graduation of their beloved ones. We are, therefore, gathered here this morning to witness the graduation of students from the Faculties of Fine Art and Industrial Art of the College of Art and Social Sciences.

#### **THE COLLEGE OF ART AND SOCIAL SCIENCES**

The College which is constituted by five academic faculties, namely: Fine Art, Industrial Art, Law, School of Business, Social Sciences, and a Research Centre, the Centre for Cultural and African Studies, runs twenty-one departments and services the entire University. The understanding is that a Science and Technology University needs a significant dose of the arts, humanities and social sciences to prepare graduands for the world of work. This rationale drives the growth of the art and liberal arts programmes. Over the years, the College

has turned out thousands of graduates some of whom now occupy very sensitive positions in the banking, commercial, industrial, business, legal, economic and other sensitive sectors of the economy.

In course of the year, significant achievements have been made in areas of research and publications, industrial and professional linkages, capacity building, infrastructure development, teaching methods, income generation, expansion of library facilities, student organization, sports and games, exhibitions as well as participation in local and international conferences.

The College continued with its Intra-College Seminars, which forum created presentation of research findings. I am happy to inform you that this has brought about a healthy competition among the faculties for slots for the presentation of seminars. The College is in the process of publishing the revised seminar papers. Besides, some authors have managed to refine some presentations for publication in peer-reviewed journals. In course of the year over 35 papers were published in peer-reviewed journals of significant impact factor. A significant development in preparing an enabling environment and motivation for publication was the launch of the maiden College Journal, CASS Journal of Art and Humanities (JAH), which, reviewers commend as one of the best in the country. Structures are being put in place to ensure its sustainability.

Ladies and gentlemen, the College continued with its remarkable performance of establishing linkages with industrial and professional organizations locally and internationally. Memoranda of Understanding were established by the University through the instrumentality of the College with Gerrit Rietveld Academie, The Netherlands; Georgia Southwestern State University, USA; and Bergische Universitaet Wuppertal, Germany. Locally, MoUs were signed with EPP Books and Services and Ghana Trades Union Congress and Development Dimensions Limited. Arrangements are far advanced for the signing of MoUs with Bowie and Howard Universities, both in the United States of America. There has been an improvement in capacity building to ensure efficient and effective rendering of academic services.

Akershus University College in Norway with which we collaborate, has, for the third year running, offered scholarship to an undergraduate in Integrated Rural Art and Industry to pursue a Masters' programme in Product Design. It is hoped that by 2014 when the College Strategic Plan would be ending, over 50% of academic staff would have had their PhDs.

At the international level Mr. Joseph Nsiah of the Department of Industrial Art designed, fabricated and installed a suitable furnace system with pre-heater for avoidance of toxic and hydrocarbon emissions including trioxins, benzene, furans and dioxins for Delta Timber

Industries (D.T.I.) Burutu, Delta State, Nigeria. Mr. Adam Rahman was part of a three-member team which represented the KNUST at a well-attended Health Open Educational Resources (OER) Inter-Institutional Workshop in Cape Town, South Africa, between the 27<sup>th</sup> - 29<sup>th</sup> July, 2009. The other members of the team were Prof. Peter Donkor, Provost of the College of Health Sciences and Prof. Ohene Opare-Sem, Head of Department of Internal Medicine. Thapong Visual Arts Centre invited Mr. George Kushiator as a resource person from Ghana to be a facilitator at a Painting Workshop in Gabrone in Botswana from 3<sup>rd</sup> April- 17<sup>th</sup> April, 2010. The Workshop brought together artists in and around Gabrone. The Exhibition lasted for 3 weeks and it was sponsored by the French Embassy. Also Mr. Edward Appiah attended a seminar/workshop on Product Design at Arkershus University College in Oslo, Norway from May 15 - 30, 2010. Mr. Ralph Nyadu-Ado of the Department of Publishing Studies attended the first GERMAN-AFRICAN ECONOMIC FORUM in Dortmund from March 2 to March 3, 2010 as a panel member. He also facilitated the German government sponsorship for German language proficiency course at the Department of Publishing Studies for staff and students.

The Faculties of Art mounted several exhibitions to showcase their talents. The packaging exhibition mounted by the Department of Communication Design received extensive exposure in the media and the occasion was graced with the presence of the Deputy Minister of Trade and Industries, who was impressed by the products of the Department.

### **COLLABORATIONS WITH INDUSTRY AND EDUCATIONAL INSTITUTIONS**

The Department of General Art Studies maintains close links with the Ministry of Education and the Ghana Education Service. In addition, the Department continues to hold consultation with various Senior High Schools and Colleges of Education on matters relevant to Teaching Practice and student research in the teaching and learning of the Visual Arts. It also has research linkages with the wood carvers at Ahwiaa, Kente weavers at Bonwire and Adanwomase, Adinkra cloth printers at Ntonso, bead makers at Dabaa, all in the Ashanti Region and the crafts section of the Centre for National Culture in Kumasi.

A special collaboration for research and professional attachment purposes was forged with the Agogo Presbyterian Women's College of Education. Besides sharing ideas on professionalism in teaching, two (2) American Educators of the International Federation for Education and Self-Help (IFESH) who are currently manning the College's Teaching and Learning Resources Centre liaise with the lecturers to build the capacity of our MA Art Education students to design and create multi-purpose instructional materials suitable for teaching various subjects across the Basic, Secondary and Teacher Training curricula. This will culminate in a "Pull-Out" in-service training project for teachers in the KNUST Basic Schools.

### **AWARDS/SCHOLARSHIPS**

Ladies and gentlemen, I am happy to announce that both staff and students in the Faculties made us proud during the year.

- Dr. Kari'kacha Seid'ou, a Lecturer in the Department of Painting and Sculpture won the 2008 Academy Silver Award in Humanities of the Ghana Academy of Arts and Sciences, with his Doctor of Philosophy thesis titled "**Theoretical Foundations of the KNUST Painting Programme: A Philosophical Inquiry and its Contextual Relevance in Ghanaian Culture**".
- Elkana Kwadwo Mpesum, a final year student won a GH¢2,000.00 Scholarship from EPP Book Services, Ghana based on some excellent illustrations executed for the company.
- Three students, namely, Daniel Kornla, Linda Anderson and Shirley Ababio won cash prizes for the Ghana Sumatra CSIR-OPRI Research Logo Design.
- Miss Zophia Kukua Palmer won Mrs. Stuber's Award for the best Packaging student during a Packaging Exhibition/Seminar organized by the Department in March 2010. She received a cash prize of GH¢200.00.
- Each year since 2007, the Best Final Year Packaging Student is given an all-expenses paid Design Achiever's Award in South Africa. Miss Zophia Kukua Palmer won this year's award and has already travelled to Pretoria, South Africa to receive her prize.
- The University of Wuppertal, Germany granted two scholarships to two of our students, Mr. Victor Acquah Djan and Miss Esther Prempeh to undertake a four-month pre-Master's programme in Germany. When successful, they will be given 2-year scholarships to pursue Master's in Printmedia in the same University.

### **PIPELINE PROGRAMMES**

To be abreast with modern demands in the industry, the Department of Industrial Art intends to broaden its programmes to include undergraduate and post graduate degree programmes leading to BSc Ceramic Technology, BSc Textiles Technology and BA in Clothing and Fashion. To this end, a linkage has been formalized by the Department for the Textiles

Section and the Ghana Textiles Printing Company Limited (GTP). This will establish a Chair of Textiles, which will foster interrelationships in areas of academic development, industrial research, staff and students' academic benefits.

We were honoured by a visit from the German Ambassador, Dr. Marius Haas, and his spouse. The visit was to strengthen the existing healthy relationship between the Department of Publishing Studies and German institutions. As part of the visit His Excellency, the Ambassador, sat in the pilot German language proficiency course organized at the Department with German sponsorship.

### **GRADUATING CLASS 2010**

This morning the Faculties of Fine **Art** and Industrial Art are presenting students for the award of Bachelor degrees in the following areas: Bachelor of Art (Communication Studies, Publishing Studies, Integrated Rural Art and Industry, Industrial **Art** (Ceramics, Metals and Textiles)) and Bachelor of Fine Art (Painting and Sculpture). In all the Faculties are presenting 736 students for graduation. The number comprises 39 with First Class degrees, 584 with Second Class degrees (Upper Division), 112 with Second Class Degrees (Lower Division) and only 1 with a Pass degree.

### **ADVICE TO GRADUANDS**

As you leave this noble University, please remember that you have been trained in a very holistic way. You need to understand that the training does not limit you to solving only particular problems in your areas of specialization. You are capable of tackling various societal problems and so take any opportunities that come your way. I can see among you various men and women of substance. Our future Vice-Chancellors, Professors, Politicians, Reverend Ministers and Business Persons among you.

This is why your attitude to work wherever you find yourself has to be right. Eschew mediocrity and always strive for the best. Be honest and demonstrate absolute integrity in anything that is entrusted you. In your daily works, be humble and admit your limitations and work towards overcoming them. Be very sensitive to the ethics of your work and profession and remember that punctuality and respect for timeliness in everything you do will inure to your own benefit.

For your various professional backgrounds, you are literally sitting on gold. Remember these pieces of advice and work hard so you can convert these potentials into reality and channel them into money to be reflected on your bank account. Be patient and do not overly rush for money.

I would also like to remind you that your training here at the KNUST should not be the end of learning. The more you learn, the more you will see that you know very little. In this regard, I will like to advise you to learn something new every day. If you can adhere to some of these rudiments of life, success should come your way in due course.

### **BENEFACTORS**

Ladies and gentlemen, may I at this juncture mention a few benefactors whose benevolence has contributed immensely to the development of our faculties:

- The Export Development and Investment Fund (IDIF) offered the College a grant of GH¢225,000.00 to support the KNUST Jewellery Design and Technology Centre

which is a joint venture between the University and Development Dimensions Limited to train students at the Metals Section in Jewellery Design.

- The Rand Refinery Limited of South Africa donated a quantity of silver worth US\$9,500.00 for use at the Metals Section to support teaching and learning.
- The University is also grateful to Dr. Samuel Adu-Poku, an alumnus and currently an Associate Professor of Art Education at the Youngstown State University (YSU) in Ohio, USA for helping the Department of General Art Studies to establish a special collaboration for research with Youngstown State University (YSU) in Ohio, USA.
- Again, Dr. Samuel Adu-Poku and Professor Patricia Sarro, donated assorted textbooks, pamphlets, study guide, slide guide and slides.
- Dr. Kwaku Of or i-Ansa, a US Fulbright Scholar and a Professor from Howard University donated a notice board, Multi-Media television, DVD Player, Projector, Scanner, books and magazines.
- Mr. Kwabena Asubonteng, a PhD. Art Education candidate has also donated a projector screen to help students in the department to develop confidence and competence in public presentations. Also, Mr. Adu-Bempah (MD of Print Art Ltd. and PhD Art Education Student) printed brochures for the Department.
- Also, a Doctoral Candidate of Art Education, Deputy Superintendent of Police. Anthony Dadzie, has helped to establish a link between the Department of General Art Studies under the College of Art and Social Sciences with the Kumasi Central Prisons in an attempt to help the inmates acquire vocational and technical training within the prison premises.
- Michigan-Chana Charter/Hewlett Foundation donated various quantities of electronic equipment to the Department of Communication Design to enhance the OER programme. The items include; Dell Studio XPS 1640 Laptops, Dell Inspiron 1545 Laptops, Wacom Bamboo Fun Graphic Tablet Set, Wacom Intous4 Pro Pen Tablet Set, Defcon CL Combo Cable Locks, 1 Terabyte, External HDDs - Audio-Technica Microphone, Dynex Lightweight Tripod and Adobe CS4 Master Collection.
- EDIF gave a grant of GH¢225,000.00 to procure facilities for training of students at the Metals Section of the Department of Industrial Art. This facilitated the establishment of the Jewellery Design and Technology Centre in the College.

## **CONCLUSION**

In conclusion, I would like to thank your parents, guardians, sponsors, friends and relatives for the moral and financial support they extended to you during your studies at KNUST. May the good Lord replenish whatever they expended on you. I know because of you, some slept on empty stomachs a few times and others forfeited their pleasures to cater for you. I say ayekoo to each and everyone of them. Your stay on campus would not have been that successful had it not been the great efforts your lecturers put in right from your first year to the final year. Bravo to them and all the support staff for their relentless effort in training you to be who you are today.

Finally, remember that life is how you live it. Each of you has a tremendous role to play in society. It is my fervent prayer that the Lord bless you wherever you find yourselves. May you be heads and not tails. May you stand out among your peers. May the good Lord subdue your enemies and may the same good Lord ensure that all your enemies perish and scatter in different directions. Know your creator and honour him in all your endeavours and it shall always be well with you. Go into the world as people who have been blessed by the Lord.

Thank you

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE-CHANCELLOR**

## DAY THREE (AFTERNOON SESSION)

### VALEDICTORY SPEECH DELIVERED BY MISS SARAH ADJEI-FREMAH GRADUAND OF COLLEGE OF AGRICULTURE AND NATURAL RESOURCES ON THE OCCASION OF THE 44<sup>TH</sup> CONGREGATION OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI HELD ON JUNE 23, 2010 FOR THE COLLEGE OF AGRICULTURE AND NATURAL RESOURCES IN THE GREAT HALL AT 13 HOURS

The Vice-Chancellor  
Pro Vice-Chancellor  
Registrar  
Provost of the Colleges  
Deans  
Senior Members  
Junior Members  
Alumni  
Fellow Graduands  
Ladies and Gentlemen  
All Protocol Observed

I am Adjei-Fremah Sarah from the Faculty of Agriculture, College of Agriculture and Natural Resources. *Elation* and *gratitude* are the words to describe how I feel at this moment on this podium. The years seemed far away; the seconds trickled slowly, oh! So soon, how time chased our stagnant feet. Today, the fingerlings have indeed reached maturity.

As I stand here, I could see smiles, smiles I could identify with, registered on the many faces watching me today. Those smiles are not new. Only this time they have taint and tint of experience. However, behind the smile and excitement lurks a painful past: a paper tailed, or a promise broken. But, we all are optimistic; our smiles, your smile and mine, tell a story nonetheless; a story that is four years old.

Four years ago, the fortune held promise for many of us; I remember that first day on campus. As long as the cords of memory shall lengthen, the joy and thrill of it shall remain with me. The very atmosphere struck awe and inspires hope. The evergreen environment, the beautiful flowers, the noon-day brightness, combined with the sunny confidence of youth - all instilled optimism not only in me but in every "fresher". But as the years wore on, the optimism wore out. You saw it in the faces of otherwise wise smart individuals. Their progress was predictable. At first, they always took the front seat at lectures. Next, they mostly stood at the back when chairs ran out. With time, their attendance to lectures slowed. Then, they would rather watch soccer than read a handout. Finally, they were unable to graduate with us today!

What are the causes, you may ask? The causes are the obstacles and challenges which come unbidden and unsolicited. A lot of forces compete to define and shape us in our steady march towards growth. Life is full of challenges and obstacles, some of which drown hope. They prompt painful doubts about the capacity of human spirit to move on in the face of challenge. Other stir in us a sense of longing - a belief that although there may be ominous clouds in the horizon or darkness, we can still keep hope alive. Wearing an academic gown today is a sign to show to the world that you chose hope instead of despair. When the forces tried to plumb

you into the depths of doubt and despair, you elected instead to scale the heights, where grace and providence linked arms to welcome you.

These obstacles also teach us that those who succeed are not necessarily those who stand tall with talents but those who are stretched taut with experience; those who weather the storms and go on. You may make a mistake, you may screw up, but that is no reason to give up. You just have to dust yourself off, and stand up to forge a new resolve.

I would also like to state that we've been nurtured by these obstacles. Our knowledge has been formed by stray hints of books read, echoes of songs heard, or perhaps sermons preached. Thanks to our parents and guardians who, though weighed down with financial difficulties, were ready to support us with the few cedis they scraped and gathered. Thanks also to the tax payer whose numb toil secured education for you and me. It is to give back, to serve the community which gave us birth. We are part of that larger community. The community chafes under the weight of economic crises, incurable disease, and hunger. It therefore needs us. Ghana needs us, Ghana needs me to help build the crippling economy and to feed the child who cannot afford a descent meal.

To my fellow graduands, as we depart to the world of work, let us be innovators. Let us not settle for the status quo but rather let's put coal in the status. Let's care more than what others think. Let's risk more than what we think is safe. Let's dream more than what is practical and lastly let us expect more than what is possible; these should be our mindset if we want to excel.

As we leave this hall today, we must look at those who ply our streets; consider their struggles, their failures, and desperate attempt to make sense out of this measly existence; take in their hunger, both of knowledge and food, look into their vacant, empty faces and understand that we don't live for ourselves. We cannot turn our eyes away. We cannot fold our alms whilst a third of the world goes to bed tonight on empty stomachs.

As Agriculturalist and Natural Resources managers, let us harness our environmental resources to feed this nation in a sustainable manner. Yes we can.

Finally, to our Senior Members and other supporting staff, I would say thank you for your nurturing. Your influences on our lives are inestimable. As long as time shall last, your influence remains in us, in our approach to work, in our general attitude towards live. May god replenish your efforts.

To our parents we say "ayekoo" for making us the extraordinary men and women that we are today.

Thank you all and may God bless Ghana.

**MISS ADJEI-FREMAH SARAH  
GRADUAND**

**MOTIVATIONAL SPEECH DELIVERED BY MR. I.K. TWUM ON THE  
OCCASION OF THE 44TH CONGREGATION OF KWAME NKRUMAH  
UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI HELD ON JUNE 23,  
2010 FOR THE COLLEGE OF AGRICULTURE AND NATURAL RESOURCES IN  
THE GREAT HALL**

Vice-Chancellor  
Pro Vice-Chancellor  
Registrar  
Members of the University Council  
Provosts  
Parents and Guardians of Graduating Students  
Esteemed invited guests  
Ladies and Gentlemen.

I deem it a privilege and honour, for this invitation, to share some few experiences in life with these graduands on this all important occasion. Let me congratulate you all for having come this far in your academic carrier in the face of all these hardships. Not only did you battle with you academic work, but also with the rigours of life. What to eat and where to lay your heads were part of the struggle. This is no mean achievement, with all respect, I salute you.

### **REALIZATIONS**

On the academic side, I have realized that though certificates are awarded for degrees in particular courses, the university training is very universal and flexible. Also everything that was taught from day one to the final day at university is of importance and helps to make life easier. With this training, therefore, you are expected to manage and handle day-to-day activities and be concerned with decision-making functions of evaluating, choosing between alternative strategies and adjustments that would be of benefit in life.

As a parent, this day will be considered as one of the most important and happiest in my life. After all these struggles and toil to see you through your education, our dear child has finally completed a course at the university. This is a very great achievement. We are proud of you. We have been able to give you a comfortable position in life, but the possessions in life we may not be able to give you. We are weaning you (gradually stopping you to depend 01' us) from today, to go into the world to look for the possessions that would make you comfortable in life. The road may be rough but with the kind of training and by God's grace you would succeed.

### **AFTER ALL THESE, WHAT NEXT? JOB**

Job, for that matter, a good job has been the biggest headache for graduates for several decades now. It is a fact that it is more difficult to obtain a job in the formal sector now than ever, but I assure you that there are more job opportunities in the informal or private sector of the economy now than ever. I am saying this because until recently, one could not hear of private ventures that have been established by individual Ghanaians in areas of banking, universities or schools, telecommunication, agriculture, and many others. In the face of all these developments, about 80% of the 'problem remains unsolved and I expect you to think seriously of trying to fill some of these areas. In agribusiness, there are a lot of job opportunities in areas of production, processing, marketing distribution, sales and in the provision of credit to farmers.

Let me now tell you a bit of my working life. I did my national service at the Department of Animal Science, KNUST farm. The first person I met at the Department was Prof. Mrs. Atuahene when I reported for duty. After welcoming me, she had this advice for me. She said, "Youngman, I think you would do better outside so think about that". I did not realize



the full meaning of this until all efforts to secure a job in a lot of established institutions had failed. I then decided to go into poultry. With the little savings that I had made from my national service allowance, I started my poultry business with only 75 birds. Today, 25 years after, I proudly say that I have not regretted taking that advice. I expected, among this congregation, a great number of CEO's of companies that would help Ghana out of its numerous problems.

At his point, I would like to share with you some few tips that would help you make it in life.

1. Have the right attitude in life.
2. Adapt the culture of savings. The 7-2-1 policy of life where 70% of your income is spent, 20% invested and 10% saved should be adapted.
3. Try to improve upon the ways that things are normally done in the system and cut losses that are usually accepted as normal in life.
4. Use cheaper alternative that do not affect production.
5. Use labour efficiently
6. Reduce the command chain in your business
7. Avoid extravagancies in life. Do not spend a pesewa outside necessity.
8. Be honest in your dealings
9. Have passion in what you do and allow your business to determine the way it should be run and not the other way round.
10. Quantify everything in terms of money, even your time
11. Invite God in everything you do.

To the graduands, on behalf of KNUST alumni, I say congrats once again. I want to assure you that our doors are always opened, so do not hesitate to approach us for any advice. The real struggle is yet to begin, but it is my wish and hope that the Almighty God will see you through.

To the university authorities, I say thank you for the care and passion you showed us whiles in school and also after school. I hope you would institute more of such talk programmes whiles on campus so that student can make informed choices at every time before they graduate.

Thank you all for listening to me and may God bless you all.

**MR. I.K. TWUM**  
**ALUMNUS**

**SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE  
CHANCELLOR OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, KUMASI, ON THE OCCASION OF THE 44TH CONGREGATION  
HELD ON JUNE 23, 2010 (AFTERNOON SESSION) FOR THE COLLEGE OF  
AGRICULTURE AND NATURAL RESOURCES**

**SALUTATION**

Chairman of the University Council  
Your Excellencies, Members of the Diplomatic Corps  
Members of the Council of State  
Honourable Minister of State  
Honourable Kumasi Metropolitan Chief Executive  
Members of the University Council  
Past KNUST Vice-Chancellors and Pro Vice-Chancellors  
Colleague Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors from Sister Universities  
Registrar and Registrars from Sister Universities  
Provosts of Colleges  
Deans of Faculties and Directors  
Heads of Departments  
Nananom  
Guest Speaker  
Members of Convocation  
Alumni of the University  
Senior and Junior Staff  
Class of 2010  
Proud and Relieved Parents  
Members of the Press  
Distinguished Invited Guests  
Ladies and Gentlemen

**INTRODUCTION AND WELCOME**

On behalf of Council, faculty members and the graduating class of 2010, I would like to welcome you all to this afternoon's function. As you may be aware, we have already held five different sessions of congregation; including the one that took place this morning. In addition: six more sessions will take place over the next three days. It is our hope that the short time you spend with us this afternoon will be a worthwhile experience.

You may recall that during last year's Congregation, I intimated that the enrolment figures for Agriculture and Renewable Natural Resources, especially for Agriculture, was gradually declining and there was the need to address the situation. We may have found an ante dote for the situation through the mounting of innovative programmes including Agribusiness Management, Dairy and Meat Science and Technology, Agricultural Biotechnology as well as Landscape Design and Management. As a result of this initiative, the current undergraduate student population of the College stands at 2,194, implying that the student population in the College has increased somewhat and it is likely to stabilise a few years hence. In particular, the Faculty of Agriculture increased its enrolment from 724 in 2009 to 1,028 in 2010, an increase of nearly 42 percent primarily on account of the introduction of market driven programmes.

**ACTIVITIES OF THE COLLEGE**

Overall, it can be said that the College has had a very good year judging from what was done

previously and what they have been able to do this year. In spite of the difficulty in recruiting faculty members, through the combined efforts of the College and the University administration, nine new lecturers were recruited during the year under review to ensure that the precarious student teacher ratio is not worsened. In addition, two members of staff have received funding from the Dutch Government to pursue their doctoral studies in Holland on sandwiched basis.

The College was able to complete and commission its training centre with funding from NUFFIC through its project on "Institutionalization of Integrated Natural Resources Management" This Centre will serve as a venue for short courses and sandwich programmes mounted by the College and other Colleges on campus.

During the last Congregation, I reported that Finatrade Foundation had donated an amount of GHC50,000.00 to be used for teaching and research purposes in the College; particularly, in the Faculty of Agriculture. During the academic year, virtually all the departments made significant progress towards the use of the facility. The Department of Animal Science raised 2,500 broilers for sale to the University community and the Department of Crop and Soil Sciences cultivated four hectares of maize and harvested 150 mini bags of maize that were sold to the Department of Animal Science for the feeding of animals. The Department of Horticulture established a turf grass nursery as well as nurseries for ornamental plants and fruits including avocado and mango. It must be mentioned that students were actively involved in all aspects of the production and management. A six-week training programme for Finatrade award winners is also to be organized during this long vacation.

The Faculty of Renewable Natural Resources continued with the implementation of APERL project jointly with the Department of Environmental Biology at University of Guelph from which the Faculty now has a state-of-the-art plant and soil laboratory. In addition, six postgraduate students have benefited from APERL Project Scholarships for 3-6 months research training at the University of Guelph. The project's main objective is to provide alternative livelihood sources in rural communities using agroforestry strategies within the proximity of our Sunyani campus.

Other notable activities undertaken by the college include an environmental education programme aimed at educating people on waste management (plastic waste in particular), wildfire management, ecotourism and water disinfection under the aegis of the Ghana-Canada Partnership for Environmental Education. Bureau of Integrated Rural Development continued with its refresher training programme for Sustainable Development Communities and the mounting of an international course on "Adaptive Management Tools and Methods for Sustainable Natural Resource Management", The latter is to be done jointly with Wageningen International in Netherlands.

In addition to the above, the College has contributed its fair share of funds towards the improvement of infrastructural facilities through rehabilitation. A borehole has been drilled to improve water supply and sanitation in the College with funds from the Provost's Office. Washrooms, including those in the Faculty of Agriculture have been rehabilitated. Following this, one of the buildings used as a hall of residence on our Sunyani campus has been renovated and used as lecturer's offices. Internet facilities have been extended to the Department of Horticulture and plans are far advanced to extend the project to the Department of Animal Science. Efforts to extend the facility have been expensive in view of the physical distance between the main campus and these two departments. The lack of

internet facilities in some sections of the faculty such as the Anwomaso and Boadi stations tend to frustrate research but I am happy to announce to Congregation that in spite of this constraint, research activities in the College have picked up somewhat compared to previous years.

### **RESEARCH ACTIVITIES IN CANR**

Faculty members are now much more aware of their responsibilities towards research than any other time in the history of this University. This has filtered through to the Departmental level and as a result, the College pursued well defined lines of research and published appropriately. As is to be expected, the College continued to depend heavily on external agencies, programmes and projects to provide financial resources and physical facilities for its research activities.

In the Department of Agricultural Economics, Agribusiness and Extension, for example, eight solid papers were published in refereed journals of international repute with high impact. In addition, some members of staff attended both local and international conferences.

Senior members in the Department of Horticulture continued with their research on very useful and practical issues which are critical for the growth and development of the sub-sector including "Formulation of soiless media for rooting difficult-to-root ornamental plants", "Processing methods and assessment of acceptability of processed selected traditional leafy vegetables" and "Evaluation of several tomato cultivars for storability, resistance to pests and diseases". Three members of staff in Horticulture had the opportunity to attend the Africa Union sponsored Africa Horticultural Congress in Kenya towards the end of last year during which time they all presented papers. Most members of the Department continued to play very important roles in the Ghana Institute of Horticulturists and to fulfill its research needs.

The Department of Crop and Soil Sciences currently runs the Tissue Culture/Plant Biotechnology facility in the University which is being expanded to include molecular genetics. These facilities will certainly enhance research opportunities in the Department. Partly as a result of these facilities, research in this Department has picked up very well. A total of 24 publications were produced as a direct result of research pursued by members of staff in this Department and they attended 22 different conferences during the year under review. The Department also attracted nearly a total of US\$600,000 from different sources including Ministry of Food and Agriculture, Root and Tuber Crops Improvement and Marketing Project as well as Export Development and Investment Fund. These funds were used primarily for research purposes.

In the Department of Animal Science, the thrust of their research has been to find ways of increasing the productivity of small animal holdings using efficient and cost effective ways of feeding animals through the use of non-conventional feed resources and the use of genetically improved breeds. A total of six journal articles and 22 conference proceedings were produced from the Department.

The Boadi Dairy/Beef Research Station and the Anwomaso Agricultural Research Station have pursued their mandate with limited resources but in spite of this, they carried out research projects which were of direct relevance to the communities living within their catchment area. Some of these works include the "Effects of moringa leaf meal on nutrient digestibility, growth, carcass and blood indices of weaner rabbits". At the Agricultural Research Station, efforts are being made to research into the integration of pastures and small ruminants on oil palm plantations. As is expected, the results of these efforts were published in reputable journals.

At the Faculty of Renewable Natural Resources, our research efforts have centred on the following broad areas:

- a. Forest-related livelihoods and forest governance in the high forest zone of Ghana;
- b. Indigenous ecological knowledge of on-farm tree management;
- c. Species invasion of Ghanaian forest resources; and
- d. Logging and natural forest regeneration.

The Department of Wood Science and Technology collaborated with the Department of Civil Engineering and Bern University of Switzerland to jointly undertake research to determine the suitability of selected lesser known and utilized species of timber for the construction of bridges and timber framed houses. The findings of this research project would have tremendous impact on our forest cover and the rate at which an aspect of our environment could be depleted.

Just like the Faculty of Agriculture, this faculty also produced several articles and conference papers. Most of which have direct impact on public policy. The research publications on the use of lesser known species for bridge construction and the other one on the sustainable production and utilization of wood fuels in Ghana are good examples.

The Bureau of Integrated Rural Development (BIRD) has also been very active in pursuing contract research projects. During the period under review, the Bureau executed a major research project for Newmont Ghana Limited on stakeholders' expectations in the mining area. Subsequently, the Bureau was engaged to carry out another study on a quantitative survey of the resettlement plan completion audit. Such studies are useful since their results enable Newmont to fulfill its social responsibilities to the extent possible. For us, what is important is that these studies have generated a wealth of data for subsequent research activities.

Output of the Bureau's research on Rural Development Indicators has attracted the attention of the Ministry of Local Government and Rural Development since the results can be used as inputs for the prioritisation of some of the projects pursued by the Rural Infrastructure Coordinating Unit of the Community Based Rural Development Project.

### **CANR's 2010 GRADUANDS**

This afternoon, we are presenting 483 students from the three faculties for graduation. Out of this number, 22 are graduating in the First Class category with 261 graduating in the Second Class (Upper Division) category. The latter category may be more than expected in a normal population but it indicates that they have been properly trained. 168 of the graduands earned Second Class (Lower Division) degree with only 6 earning Pass degrees. We are also graduating 3 Distinction and 23 Pass from the Diploma programme on Sunyani campus.

I would like to use this opportunity to congratulate all our graduands for the wonderful work they have done in spite of some difficulties they may have encountered in one way or the other. Our hope is that, you will not rest on your oars but would make excellent use of any opportunities that come your way in future to further develop yourselves so that the basic skills you have acquired here at the KNUST will be further enhanced.

At this point, I would also like to appreciate the efforts of your parents and lecturers without whose efforts our graduands would not have achieved this success. I believe that I speak for all parents when I say that they have all toiled and sacrificed to enable you pursue your university education. Your lecturers have also contributed their quota

towards your education. They took you in your raw state, so to say, and have enhanced your value. Can I, therefore, suggest that we stand and clap to show our appreciation to our parents and lecturers.

### **ADVICE TO GRADUANDS**

A few words of advice to our graduands, at this point in time, will be in order. As you leave the four walls of the University, please be guided by your conscience and what you have learnt here. You are now in a position to decipher what is right from what is wrong. You should no more simply follow your peers or the crowd. Just as you came in as individuals, so you will remain for the rest of your lives after school. You should always remember that in a very dense forest, there are still individual trees and each stands on its own with unique identities. The way to success may be a little more crooked than you think and, therefore, do not expect to become rich over night. Hard work and experience will be what you require over the short term. Success will certainly come your way if you work hard and remember that hard work will not break any bones.

You also need to be humble and show respect to everyone you meet, especially, the less fortunate ones that you will meet at your various workplaces. Do not look down on them because they could have also been where you are but for some unfortunate reasons. You may be doomed if you disrespect people and are rude towards those you meet daily. Never forget your parents, family members, lecturers and all those who have made it possible for you to graduate today. Never forget your alma mater because its future is in your hands; you can make or unmake it.

### **BENEFACTORS**

Several agencies and individuals contributed significantly towards the work of the College during the year under review. They may be too many to mention but please permit me to identify a few of them, including Finatrade Group of Companies, Virginia Tech, CIDA, DfID, SIDA, Amalbank Ltd., Vodafone Ghana and the Government of Ghana. We very much appreciate your partnership with the College of Agriculture and Natural Resources and do trust that in the years ahead of us, there will be further opportunities for collaboration.

### **CONCLUSION**

The College of Agriculture and Natural Resources is one of our foremost and treasured colleges in this University. It has tremendous potentials in spite of rather obvious constraints but our belief is that it has the capacity to turn around the sordid state of food production as well as the protection and conservation of our natural resources in Ghana. We all have a role to play, especially, you the fresh, young and energetic graduands. May the good Lord grant you His wisdom and strength and see you through all your future endeavours.

God richly bless you.

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE CHANCELLOR**

## **DAY FOUR (MORNING SESSION)**

### **VALEDICTORY SPEECH DELIVERED BY NANA KWABENA ABOAGYE GRADUAND OF COLLEGE OF SCIENCE ON THE OCCASION OF THE 44TH CONGREGATION OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI HELD ON THURSDAY, JUNE 24, 2010 FOR THE COLLEGE OF SCIENCE (FACULTY OF PHYSICAL SCIENCES) IN THE GREAT HALL AT 09 HOURS**

As I stand here before you today, the most important fact that comes to mind and heart above all feelings and thoughts, is that I always have been, am at present, and always will be proud to be a Technocrat.

This day marks the end of a phase in our lives. For some it may feel like the beginning of the end, but, in fact, it is the end of a brief and amazing beginning. Today's purpose is to pay respect to a school, an institute, and to many, a home, which has contributed so much to our lives over the past four years. All the opportunities that are made available to us and all the "magic" at KNUST don't just appear. It's thanks to some people that we are blessed with these gifts.

Most importantly, I would like to thank our Father in heaven who made all this possible by blessing us with this opportunity. Psalm 118:8 says, "Trust in yourself and you are doomed. but trust in God, and you are never to be confounded in time or eternity. All glory of this year goes to the Lord, and I hope he has been pleased with us.

I would like to say thank you to the staff. The efforts you put in our lives during school and after hours can never be replaced. I only hope that you can look at these congregants and be proud of these efforts you have made, because to you we eternally will be grateful. For the hours In the lecture rooms and laboratories, the words of advice, even when we thought we didn't need them, for all of it, we say; thank you. I came across a piece of writing that immediately made me think of the efforts you have put in our lives:

"Come to the edge", he said.

"We are afraid", they replied.

"Come to the edge", he said. They came, he pushed them and they flew.

Then to all parents, I say thank you. You stood by us through the good and the bad; you took all the flak from us and you were always there to help us out with anything. We are the persons we are today because of how you raised us and for that we love you and we thank you.

To my fellow congregants, especially my classmates "Actuarial 4", the highs and the lows we have experienced have brought us closer together than ever; the friendship that have been forged will last all our days.

Being graduates from the College of Science make us very vital to the progress of the nation; we are the graduates with the most amazing potential for change. After all, we are the bedrock of development in society and a great deal is expected of us. Up until this point in our lives, we have been receiving and receiving from people around us. Yet, to truly become adults we have to realize that we must stop receiving all the time and we must begin giving

back to society. Though most of us will not become self-sustaining right out of university and may still be dependent on our parents for things, we must truly begin to show our appreciation to all those who have brought us to where we are.

To all my colleagues gathered here today, I may gladly give you 10, 15, 25, or 50 rules to live by to endure the next phase of your lives. But as we all know, that would be futile since if you live by rules, you may very well end up being very good at a game that no one else is playing any longer. The true answer lies not in rules but in principles and values. If you apply some of the principles that you have learnt over the past few years at KNUST (Faculty of Physical Sciences) and home, they will act as compass to guide you along your path. Even if you get knocked totally out of direction, principles like INTERGRITY, HONESTY, LOYALTY, COMMITMENT, HARDWORK and RESPECT will keep you on the path of success, no matter how you choose to define success. If we accept that we live in a world that's constantly changing and not always fair and we take these values and wrap them in Body, Mind and Spirit to get the appropriate balance, then we will be equipped to face the challenges that life will bring.

As I end, I would like to say that our experiences and memories will go with us forever and I assure you that the graduates of 2010 will be remembered for years to come.

Graduands, together we have dared mighty things, and have won our glorious triumph.

Thank you and May God be with us all.

**NANA KWABENA ABOAGYE**  
**GRADUAND**



**SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA,  
VICE-CHANCELLOR OF KNUST AT THE 44TH CONGREGATION  
CEREMONY FOR THE COLLEGE OF SCIENCE (FACULTY OF  
PHYSICAL SCIENCES - MORNING SESSION) ON THURSDAY, 24TH  
JUNE, 2010 AT 9.00AM IN THE GREAT HALL - KNUST, KUMASI**

**SALUTATION**

Chancellor of KNUST or Representative  
Chairman of Council  
Honourable Ministers and Members of Parliament  
Your Excellencies, Members of the Diplomatic Corps  
Members of the Council of State  
Members of the University Council  
Colleague Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors of Sister Institutions  
Past Vice-Chancellors and Pro Vice-Chancellors  
Registrar and Registrars from Sister Institutions  
College Provosts  
Deans and Directors  
Heads of Department  
Nananom  
Guest Speaker  
Members of Convocation  
Alumni  
Senior and Junior Staff  
Parents and Guardians  
Graduands  
Distinguished Invited Guests  
Ladies and Gentlemen

**INTRODUCTION AND WELCOME**

On behalf of the University Council, faculty and staff of the Kwame Nkrumah University of Science and Technology (KNUST), I would like to welcome all of you to this morning's short but impressive ceremony. We have since Monday, 21<sup>st</sup> June held six sessions to graduate students from the College of Art and Social Sciences, Architecture and Planning as well as the College of Agriculture and Natural Resources. Today, we will witness the graduation of students from the College of Science and our Institute of Distance Learning but this morning, we have gathered here to graduate students from the Faculty of Physical Sciences.

As has been the tradition, my report on the activities of the College will be a short one and I will plead with you to get copies of the Vice-Chancellor's Report to the 44th Congregation for an in-depth review of the activities of the various Colleges, Faculties and Departments of the University. We are very happy to have you all in our midst to witness this occasion and I warmly welcome you all to this morning's function.

**THE FACULTY OF PHYSICAL SCIENCES AND ITS ACTIVITIES**

Distinguished ladies and gentlemen, the Faculty of Physical Sciences is one of the two Faculties in the College of Science. The Faculty is made up of four Departments, namely: the Department of Chemistry, Department of Computer Science, Department of Mathematics and the Department of Physics. These Departments together run six undergraduate and an equal number of postgraduate programmes. There are, however, two graduate programmes (MSc Industrial Mathematics and MSc Computer Science) from the Faculty that are currently being

run via the distance learning mode. The Faculty, being part of the College of Science which has a mission to *"provide high quality teaching, research, entrepreneurship training, service and the development of programmes in the pure and applied sciences for the industrial and socio- economic development of Ghana and Africa"* continued to train high level scientists in the areas of Mathematics, Physics, Actuarial Science, Chemistry, Computer Science and recently, Meteorology and Climate Science.

As a science and technology university, all students passing through the University are made to have a feel of some basic science courses such as mathematics and basic computer skills. In this direction, almost all the Departments in the Faculty of Physical Sciences serviced most of the Departments in the University. For instance, lecturers in the Department of Mathematics and Computer Science have taught virtually every student of the University mathematics or computer science and this puts a lot of pressure on both the human and material resources of these two Departments but we are most grateful that the University continued to enjoy the services of the Faculty and College of Science at large.

The Faculty has affiliation with national and international bodies such as the Ghana Chemical Society, the Ghana Science Association, the African Institute for Mathematical Sciences and the National Institute for Mathematical Sciences (NIMS) whose National Secretariat is currently at the Faculty of Physical Sciences and I am happy to report that the Faculty's Dean, Professor Isaac Kwame Dontwi is the Acting National Director of NIMS.

I am happy to also inform you that, the Faculty continued its rich research tradition during the year under review. In this direction, I am very proud to announce that work done by Professor Francis Boakye of the Department of Physics and his team on *"The Anomalous Low Temperature Resistivity of Thermally Evaporated a-Mn Thin Film"* has been published in the Journal of Magnetism and Magnetic Materials with a very high impact factor. This Journal provides an important forum for disclosure and discussion of original contributions covering the whole spectrum of topics from basic magnetism to the technology and applications of magnetic materials. Currently, AT & T Bell Laboratory in the USA is very interested in the anomalous behaviour of alpha-manganese thin films because of their tremendous use in magnetic recorder heads. The paper published by Professor Francis Boakye and his team, therefore, adds a novelty to the magnetic properties of this complicated metal. Professor Boakye, congratulations to you and your team.

Distinguished ladies and gentlemen, the KNUST has since its establishment close to sixty years ago, carved a niche for itself as one of the major institutions of human resource training in the country. This stems from the fact that the University by its nature and purpose, trains human resource to solve societal problems. This has resulted in the mounting of several programmes and projects aimed at responding appropriately to societal demands and requirements. In this direction, the Department of Chemistry organised a stakeholders' workshop on 10<sup>th</sup> May, 2010 on the theme *"Developing Human Resources for the Polymer Industry in Ghana"* with the aim of mounting an MSc degree programme in Polymer Science to provide students of different academic backgrounds, the opportunity to gain training and skills in polymer science in an attempt to find a lasting, feasible and cost effective solution to the plastic menace our environment is inundated with. All things being equal, this programme will be on offer during the next academic year and will train specialists for the polymer industry in Ghana.

On infrastructure development, I am happy to report that the much awaited College of Science complex is now complete and ready for use in the next academic year. What this means is that, all the Departments under the College that currently do not have permanent premises such as the Department of Computer Science, Department of Mathematics, Department of Biochemistry and Biotechnology as well as the Department of Optometry and Visual Science would have their own permanent premises in the new complex. The new complex would also provide rooms for lecture theatres, classrooms, lecturers' offices, a College Library and a Conference Hall. We are most grateful to the Ghana Education Trust Fund (GETFund) for the provision of funding for this magnificent edifice for our College of Science. The complex will be commissioned soon after Congregation; that is on June 28, 2010.

Distinguished ladies and gentlemen, as a science and technology university, we are fully aware of the immense benefits and strategic importance of modern, well furnished laboratories to our enterprise of teaching, learning and community engagement. Laboratories the world over, serve as incubation grounds for new knowledge, help in fine-tuning already existing knowledge or truths, and help in testing the veracity of knowledge or conventions; amongst others. Unfortunately, as a result of the capital intensive nature of modern science and technology equipment, the University has had to phase the refurbishment of our various laboratories. I am happy to inform you that, the innovative scheme of refurbishing our laboratories begun with the College of Science and through this initiative, we have been able to refurbish 19 laboratories in this College. The project involved the installation of state-of-the-art laboratory equipment in these laboratories in this College of Science. Other physical works carried out include the fixing of sliding windows and doors, changing of bench tops for the installation of computers, electrical re-wiring for stabiliser installation, installation of split-air conditioners, re-polishing of terrazzo floors, tiling of laboratory floors, networking of all the laboratories, fitting of audio visual equipment in all the laboratories, painting, and re-roofing; amongst others. The total project cost was estimated at GH¢15million. Through a similar initiative, it is expected that all other laboratories, studios and workshops in the other Colleges will also have their turn in order to bring some modernity to our workshops, laboratories and studios to facilitate modern teaching and learning.

However, it is instructive to add that the project was funded from the College's Internally Generated Funds (IGF) through the College's share of the academic facility user fees (AFUF), proceeds from Ghanaian fee-paying students, foreign students' fees with support from the Central Administration of the University. This will undoubtedly help to bring teaching and learning to international standards in the College, boost research output of staff of the College with its attendant increase in publications, as well as help to instill self confidence in our students because of their exposure to modern facilities. Some of the equipment installed can even be used to generate income for the College. I am particularly happy that, henceforth, our compatriots in the College of Science would have greater opportunities to conduct research looking at the huge amount of funds sunk into this project.

### **THE GRADUATING CLASS**

Distinguished ladies and gentlemen, permit me to say a word about the kind of students we are graduating this morning. In all, we are graduating 566 students from four Departments under the Faculty. Out of this number, there are a total of 165 Mathematicians, 91 Computer Scientists, 118 Chemists, 88 are Physicists and the remaining figure of 104 being Actuarial Scientists.

Out of the graduating class, 43 students obtained First Class degrees which represents 8%, a further 248 students or 44% obtained Second Class (Upper Division) degrees, 252 representing about 44% obtained Second Class (Lower Division) degrees and the remainder of 23 which is just 4% obtained Pass degrees.

### **ADVICE TO GRADUANDS**

My dear graduands from the Faculty of Physical Sciences, you should now be aware that, in today's world, the boundaries between disciplines are becoming more blurred. As a result, you necessarily need to link different areas of knowledge that used to be separate in order to understand our complex social, scientific and economic problems. With this in mind, we have given you universal education. Yours is to be dynamic enough and adopt methods, systems and procedures that are suitable in the prevailing circumstances. This also means that, you need to learn and become abreast with other areas of human endeavour; be them in business, engineering, transportation, education, health, sanitation, food supply and security; among others, in order to propound viable and sustainable solutions. As scientists, you would, therefore, need to return to simple models to understand the reality in which the areas of knowledge are interlinked in order to propose a holistic solution to society's problems.

As you go to the world of work, you would soon realise that, there is always a marked difference between classroom or lecture theatre models and what actually pertains in the real world. This is as a result of the fact that, you would be dealing with human beings whose behaviour and reactions cannot be predicted fully. You would need to tolerate and learn the culture and norms of the society and organisations you would find yourselves in, so you can fit very well. You would sooner than later realise that, the grounds would become very fertile for the introduction of the needed changes you are so passionate about.

### **CONCLUSION**

As we celebrate your success as new graduates, please be mindful of the fact that you could not have come this far without the help and support of others; especially, your parents and guardians, lecturers and supporting staff of your respective Departments. Your parents and guardians have had to sacrifice a lot to support you over the past four years. For their self denial and commitment to your future wellbeing, may I ask all parents and guardians here present to be upstanding to receive a special round of applause .....Thank you and please resume your seats. Similarly, let me request that lecturers and support staff who have persevered under very trying conditions to impart knowledge to our graduands to be upstanding to be acknowledged with a special appreciation from all of us Thank you and please resume your seats.

Finally, the good Lord says He will make you a great nation, He will bless you and make your name great so that you will be a blessing. He will bless those who bless you and curse those who dishonour you and through you, all the families of the world will be blessed.

Thank you.

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE-CHANCELLOR**

## **DAY FOUR (AFTERNOON SESSION)**

### **MOTIVATIONAL SPEECH DELIVERED BY MARTIN APPIAH-DANQUAH BSc (HONS) BIOLOGICAL SCIENCES, MASTER BREWER, INSTITUTE OF BREWERS AND DISTILERS, UK ON THE OCCASION OF THE 44TH CONGREGATION OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI HELD ON JUNE 24, 2010 FOR THE COLLEGE OF SCIENCE IN THE GREAT HALL**

Vice-Chancellor  
Pro Vice-Chancellor  
Chairman  
Deans of Colleges  
Professors  
Distinguished Guests  
Ladies and Gentlemen  
All protocols observed

I deem it an honour to deliver this year's motivational speech to this year's graduands and I know at the end you will be motivated to take the world by storm.

Firstly, let me congratulate the graduands for being successful.

Secondly, I thank the academic and administrative staff for taking pains to nurture these brains we have now.

What time is it? 2x

- Someone will look at his watch and say 9.00am
- Someone will look at the weather and say it is the rainy season.
- Someone will look at the economy and say it is hard

But I look at you and say it is your time.

When I was in the green walls of the University, I felt like green beer, fresh and protected by the University. Like beer I was brewed, nurtured fermented, matured, filtered and finally packaged into excellent premium beer for the market.

You have also gone through the same and are at the threshold of being packaged into premium beer onto the market, which is the global village.

I took the challenge in the brewing industry, which is difficult, competitive and a profession where training was abroad. The University had however taught me how to deal with tight time lines, schedules and where to look for what.

I however stayed in Ghana focused on what I wanted to achieve, since that was my interest and eventually here I stand after going through the rudiments of my profession, a master brewer in fact the second in Ghana solely trained in Ghana and Brewed out of the Kwame Nkrumah University of Science and Technology.

The future may look bleak like I started with the weather and the economy, but I give you the assurance that there are even more opportunities now, with the oil found in Ghana, the move towards biotechnology, coupled with the fact that the kind of training you have gone through

and with your analytical minds you will be sort for in all walks of life, banking and finance, administration, research and development, commerce to mention a few all you need is to know your interest, focus on what you want your outcome to be and drive to attaining it.

Before I end I leave you with the quotes,

1. Every man takes the limits of his own field of vision for the limits of the world - Arthur Schopenhauer
2. There are risks and costs to a program of accounts, but they are far less than the long-range risks and cost of comfortable inactions - John F. Kennedy.

I know you are poised to take up the challenge of life and go for the opportunities.

- Go for them, because the time is yours and you are ready.
- Welcome to the world of opportunities and take it by storm in the Grace of God.

Thank you.

**MARTIN APPIAH-DANQUAH**  
**ALUMNUS**

**SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE-  
CHANCELLOR OF KNUST AT THE 44TH CONGREGATION CEREMONY  
FOR THE COLLEGE OF SCIENCE (BIOSCIENCES AND DISTANCE  
LEARNINGAFTERNOON SESSION) ON THURSDAY, 24TH JUNE, 2010  
AT 1.00 PM IN THE GREAT HALL - KNUST, KUMASI**

**SALUTATION**

Chancellor of KNUST or Representative  
Chairman of Council  
Honourable Ministers and Members of Parliament  
Your Excellencies, Members of the Diplomatic Corps  
Members of the Council of State  
Members of the University Council  
Colleague Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors of Sister Institutions  
Past Vice-Chancellors and Pro Vice-Chancellors  
Registrar and Registrars from Sister Institutions  
College Provosts  
Deans and Directors  
Heads of Department  
Nananom  
Guest Speaker  
Members of Convocation  
Alumni  
Senior and Junior Staff  
Parents and Guardians  
Graduands  
Distinguished Invited Guests  
Ladies and Gentlemen

**INTRODUCTION AND WELCOME**

I would like to welcome all of you to this afternoon's function which will be witnessing the graduation of students from the Faculty of Biosciences in the College of Science, and students from our Institute of Distance Learning. A similar ceremony was held in the morning for graduates from the Faculty of Physical Sciences and as it is to be expected, we are always happy to have you attend these ceremonies which are annual rituals for those of us in academia.

It is my hope that you will acquire copies of the Vice-Chancellor's Report to the 44th Congregation to have a full picture of what the entire University has been up to during the past academic year since my address this afternoon will provide only a gist of the entire report. I would also encourage you to buy other University souvenirs which are on sale at the Great Hall foyer to serve as memorabilia for today's colourful ceremony. It is my hope that the good Lord will be with you as you travel back to your homes and towns after the short ceremony.

**THE FACULTY OF BIOSCIENCES AND ITS ACTIVITIES**

Distinguished ladies and gentlemen, permit me to say something about the Faculty of Biosciences which is graduating its students this afternoon. I would similarly provide a

briefing about the Institute of Distance Learning later in my presentation. As some of you may be aware, the Faculty of Biosciences in the College of Science offers both graduate and undergraduate programmes in all its three distinct Departments; namely: the Department of Biochemistry and Biotechnology which also houses the Food Science and Technology programme, Department of Theoretical and Applied Biology which accommodates the Environmental Science programme and Department of Optometry and Visual Science. The Faculty exists to teach, research and provide entrepreneurship training in the basic and applied sciences and the Faculty currently has a total student population of 1,174 with 57 faculty members and a further 26 support staff.

The Faculty has been conducting demand-driven and development-oriented research in all its Departments and during the year under review, the Faculty conducted research in areas such as the production of Pectin enzymes by solid state fermentation, effects of hepatocellular cancer and Hepatitis B virus infection on liver function, genetic diversity and genetic improvement of crops, design and fabrication of solar driers, gas driers and fuel driers. Others include trends in refractive error changes after cataract extraction, link between visual status and academic performance among students, aflatoxin levels in industrial raw materials and Ghanaian foods.

As a result of the activities of the Faculty, its staff and Departments serve as consultants for national and international institutions such as the Food and Drugs Board, Noguchi Memorial Institute for Medical Research, UNICEF, the International Centre for Eye Care Education, (ICEE), the Environmental Protection Agency, World Council of Optometry, the United Nations University Institute for Natural Resources in Africa (UNU/INRA), the Bernhard Nocht Institute for Tropical Medicine, Hamburg and the Community Water and Sanitation Agency; among others.

Distinguished ladies and gentlemen, I am happy to inform you that the Faculty of Biosciences made history during the year under review when it produced the University's first female full professor in Biochemistry and Biotechnology in the person of Professor (Mrs) Victoria Pearl Dzogbefia to deliver a professorial inaugural lecture. Professor Dzogbefia's professorial inaugural lecture was on the topic ***"The Silent and Invisible Factory Workers: Creators of Wealth for Smart Nations"***. Professor Dzogbefia, congratulations.

The Faculty also attracted several research grants and scholarships for its research and training purposes during the past academic year. One of such grants is the one from the National Sciences and Engineering Research Council of Canada (NSERC) which awarded an amount of US\$4,912.76 and equipment worth 6,475 Canadian Dollars to two faculty members to investigate the limnology of Lake Bosomtwi in the Ashanti Region. Two students from the Faculty have also been registered for their PhD studies under the aegis of this project. The United Nations Children's Fund (UNICEF) also awarded an amount of US\$5,279.79 to Professor Kwasi Obiri Danso, Dean of the Faculty of Biosciences, to investigate pollution of peri-urban water supply from groundwater sources in the Bawku-East District of the Upper East Region of Ghana. The Faculty is also involved in the preparation of the technical and organisational foundation for the implementation of sanitation facilities in West Africa. This project is an EU funded one through its Network for the Development of Sustainable Approaches for Large Scale Implementation of Sanitation for Africa (NETSSAF) and it is being co-ordinated by Professors R. C. Abaidoo and Obiri Danso.

Distinguished ladies and gentlemen, I am also happy to report that, in the course of the past academic year, the Department of Optometry and Visual Science was selected by the World Council of Optometry (WCO) to carry out its Refractive Error Studies in Children (RESC) and the Department is the only one apart from another one in South Africa which were selected by the World Council of Optometry to carry out this project in the whole of Africa. In addition to the above, the International Centre for Eye Care Education (ICEE) selected the



Department as partners in its first Vision Centre Project in the Sub-Region for a project called the "*Asbanti Vision Centre*" which is a collaborative effort between ICEE, the Ayeduase Community and the KNUST. The Vision Centre which is located in the Ayeduase Community was commissioned on Friday, 28<sup>th</sup> May, 2010 following the signing of a memorandum of understanding to provide accessible and affordable eye care services to the public; especially, those within the 19 surrounding communities of the University.

The Department of Biochemistry and Biotechnology as well as Food Science and Technology benefited from a donation of assorted modern laboratory and office equipment from the Plant Sciences Group of Wageningen University and Research Centre. The equipment is valued at US\$400,000.00 and was made possible through a Memorandum of Understanding that was signed between the College of Science and the Plant Sciences Group of Wageningen University and Research Centre in the Netherlands in 2009 to establish a working relation in the areas of laboratory and equipment transfer, joint research and publication, joint training for students and an exchange programme for students, staff and faculty members. The Department of Environmental Sciences also received an amount of 10,000 Euros from the World University Service through its Workplace Educational Equipment Subsidy for the purchase of office and laboratory equipment. This will undoubtedly help the Department to solve some of its teething problems.

Several institutions such as the Ramapo College of New Jersey - USA, the Alumni Association of Lancaster University of the United Kingdom, the Trade and Investment Programme for a Competitive Export Economy (TIPCEE) as well as individuals such as Dr. oris Gerald Nii Amissah, Professor S.E. Adunyah, Professor and Mrs Yaw Debrah also made several donations of books, laboratory equipment and cash to the Faculty in the course of the year. In addition to the above, Mr. George Kojo Nenyi Andah, MTN Marketing Manager and an alumnus of the Faculty of Biosciences and his wife donated an amount of US\$5,000.00 to the College for the institution of an Endowment Fund in their name as a sign of appreciation to the Department of Biochemistry and Biotechnology in particular and the University in general. The Fund will cater for needy but brilliant students and the modalities for the administration of the Fund is currently being discussed by the College. The University is most grateful to all these institutions and individuals for their kind support.

Distinguished ladies and gentlemen, I am also proud to report that, a professor of the Faculty in the person of Professor (Mrs) Victoria Pearl Dzogbefia, who as I said earlier is the first female of the University to have delivered a professorial inaugural lecture, has instituted an Award for the Best Final Year Student in Enzymology in the Department of Biochemistry and Biotechnology. This is in recognition of the impact the Department has made on her life during her undergraduate and postgraduate studies as well as during her years as a lecturer in the Faculty. Professor Dzogbefia, congratulations once again and thanks for the award. I hope it will challenge other colleagues to emulate your feat. We are most grateful.

During the past academic year, the Department of Optometry and Visual Science organised its second Oath Swearing Ceremony for newly qualified Optometrists and Visual Scientists on Saturday, 27<sup>th</sup> March, 2010 in the Great Hall during which ceremony 32 students from the KNUST and another five from the University of Cape Coast were presented for induction.

On income generation for the Faculty, the University's 13-acre Botanic Garden which provides grounds for the University community's retreats and socialising activities as well as serve as a resource site for practical lessons in Ecology, Plant Physiology, Agroforestry and Conservation is currently being managed by the Faculty of Biosciences' Department of Theoretical and Applied Biology. The Faculty also runs the popular Clinical Analysis Laboratory (CANLab) which conducts various types of clinical analysis for the University community and the general public at large.

## **INSTITUTE OF DISTANCE LEARNING AND ITS ACTIVITIES**

Please permit me to also say a word or two about our Institute of Distance Learning. Over the years, there have been calls from several quarters for a drastic increase in the intake of our students at both the graduate and undergraduate levels to ensure that, as many as possible graduates are produced to execute the country's development agenda. The above notwithstanding, we have over the years not been able to operate at our optimum partly on account of problems such as run down infrastructure, inadequate lecture theatres and studios, inadequate academic staff, and outmoded laboratory equipment.

For us to be able to surmount the above problems, a couple of years ago, the University restructured our then Faculty of Distance Learning into a complete Institute; with several Departments. We saw distance education as a powerful and growing force in our attempt to provide a bigger platform of accessibility for students. So far, I am happy to inform you that, there are seven Regional Centres for our Institute of Distance Learning, offering several undergraduate and postgraduate programmes and effective next academic year, there will be an eighth Centre in Cape Coast to cater for the Central Region. Gradually, the Institute of Distance Learning is beginning to play its proper role as anticipated. From a small number of 16 students in 1998, it now has a total student population of 2,575 and its programmes are very much patronised; especially, the Commonwealth of Learning's MBA and MPA programmes. Our distance learning undergraduate programmes are also gradually becoming popular with the introduction of a limited number of liberal arts programmes such as Sociology and Social Work.

In addition to the above, it is also anticipated that the Institute of Distance Learning will now' become the centre to co-ordinate all part-time, top-up and all other special programmes on offer in the University. Indeed, the IDL has begun performing this important role by hosting the top-up programmes in Administration as well as Computer, Electrical and Telecommunications Engineering. We are all overwhelmed by the level of patronage these two programmes received which gives us an indication of the potential demand for such topping up programmes in the country. It is our hope that the Departments of Civil Engineering and Mechanical Engineering will soon commence their top-up programmes for our Certificate and Diploma holders. It is my expectation that in the very near future, every Faculty will have programmes on offer via the distance learning mode.

The Institute's intention to develop our old Guest House at Ridge in Accra into the nucleus of our Accra campus is on track. The evaluation report has been sent to the Ministerial Tender Committee and we are awaiting final approval to commence construction of permanent offices and our third campus in Accra. In a similar vein, the IDL is now considering the development of our Nhyiaeso properties into our Kumasi City Campus following the University Council's approval. This will make our programmes and facilities, more accessible to all those who would want to access any of our programmes on offer via the distance mode.

## **THE GRADUATING CLASS**

Distinguished ladies and gentlemen, permit me to say a word about the kind of students we are graduating this afternoon. In all, the Institute of Distance Learning is graduating forty (40) undergraduate students from all the seven Regional Centres. Thirteen of these students obtained Second Class (Upper Division) degrees, 25 students obtained Second Class (Lower Division) degrees and two students obtained Pass degrees.

The Faculty of Biosciences is also presenting 282 students for graduation this afternoon. Out of the graduating class, 20 students which is 7% obtained First Class degrees, 127 students

which represents 45% obtained Second Class (Upper Division) degrees, 69 students representing 25% obtained Second Class (Lower Division) degrees and the remainder of 66 which is 23% obtained Pass degrees. The distribution is, therefore, a little skewed towards the First and Second Class (Upper Division) degrees; implying that the graduands' performance was above average.

### **ADVICE TO GRADUANDS**

My dear graduands from the Faculty of Biosciences, you should now be aware that, in today's world, the boundaries between disciplines are becoming succinct and more blurred. As a result, you necessarily need to link different areas of knowledge that used to be separate in order to understand our complex social, scientific and economic problems. With this in mind, we have given you universal education. Yours is to be dynamic enough and adopt methods, systems and procedures that are suitable in the prevailing circumstances. This also means that, you need to learn and become abreast with other areas of human endeavour; be they in business, engineering, transportation, education, health, sanitation, food supply and security; among others, in order to propound viable and sustainable solutions. As scientists, you would, therefore, need to return to simple models for understanding the reality in which the areas of knowledge are interlinked in order to propose a holistic solution to society's problems.

I also plead with your would-be supervisors and co-workers in the work place to mentor you so that you can fully self-actualise and utilise your God given talents to the maximum for the benefit of mother Ghana and human kind in general. Also remember that you have an obligation towards your alma mater, the KNUST. I know that KNUST trained and nurtured you to this level and, therefore, you also owe it as a duty to contribute to its overall development. After all, it is said that *"the life and care which facilitate the cutting of teeth in infancy should be reciprocated with the love and care which facilitate the shedding of teeth in old age"*. In other words, one good deed deserves another. Go and make our society better for its citizens with your acquired knowledge; do not use your skills/knowledge to exploit others.

Dear graduands, by your training as bioscientists, you have been introduced to several problems of malnutrition, food preservation, communicable diseases, water quality and its supply as well as sanitation in both our urban and rural communities, environmental problems, pest and disease control, eye care needs and several other problems which you identified in the course of your various community engagements and practical experiences in the course of your studies. The level of enthusiasm with which you conducted such community services should be replicated in your professional practice so that it would not be that you helped the deprived communities as a basic requirement for your respective degrees. There have been several complaints in our society about the cost involved in engaging specialists. Let the society that helped to mould you benefit from your expertise.

To those of you who are graduating from our Institute of Distance Learning, you have tasted the benefits and convenience of distance education. It is my wish that you will spread the good news to enable your other colleagues to take advantage of the opportunity we are offering to them to improve themselves. You were by no less means full students of the University. I will encourage you to join our alumni association at any of the Regional Centres and help contribute your quota to your cherished alma mater. Just as the small boy who appears on television tells friends, aunties and everyone he meets on his way that his mother is the best cook in the world, go out and tell everyone that KNUST is the best University in Ghana.

## **APPRECIATION AND CONCLUSION**

As we celebrate your success as new graduands, please be mindful of the fact that you could not have come this far without the help and support of others; especially, your parents and guardians, lecturers and supporting staff of your respective Departments. Your parents and guardians have had to sacrifice a lot to support you over the years. For their self denial and commitment to your future wellbeing, may I ask all parents and guardians here present to be Up standing to receive a special round of applause ..... Thanks and please resume your seats. Similarly, let me request that lecturers and support staff who have persevered under very trying conditions to impart knowledge to our graduands to be upstanding to be acknowledged with a special appreciation from all of us ..... Thank you and please resume your seats.

In conclusion, I thank you all for adding pump to today's graduation ceremony and to say that, we are most grateful to all our benefactors through whose benevolence we are celebrating these graduands today.

Thank you and God bless you our graduands as you commence your journey into the world of work.

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE-CHANCELLOR**

## **DAY FIVE (MORNING SESSION)**

### **MOTIVATIONAL SPEECH DELIVERED BY MRS HARRIET AMISSAH-ARTHUR ON THE OCCASION OF THE 44TH CONGREGATION OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI HELD ON JUNE 25, 2010 FOR THE COLLEGE OF ENGINEERING IN THE GREAT HALL**

Members of the University Council  
Vice-Chancellor  
Provosts  
Faculty  
Staff and Student of Engineering  
Distinguished Ladies and Gentlemen

Thank you for this invitation, I feel highly honoured by it.

Distinguished ladies and gentlemen, today we celebrate a 4 year journey by the young men and women and their guardians who set out to achieve a specific objective and have done just that. 28 years ago I was a graduand just like you and member of the graduating class of 1982, I worked with the VRA for 17 years during which time, I worked as a protection and control engineer in the Akosombo dams, I also worked as maintenance and spares planning engineering for both the Generating and Transmitting Systems Departments, I was a management trainer responsible for training for middle level management staff.

After leaving VRA, I then worked with KITE, an energy and development organization, for almost 9 years championing the cause of the deprived in society. I also was a GTP cloth dealer for many years, whilst still practicing engineering. Between 1984 and 1988 when Ghana was really hard as they say it, I went into serious commercial poultry farming as well as backyard farming, I grew enough to feed my family and even gave produce away sometimes. My varied experiences some of them completely not engineering have added significantly in my acquiring street sense and everyone needs that.

I am currently the, Executive Partner of the Arthur Advisors Group, an energy and investment company. I am not rich but feel fulfilled learnt to enjoy life as a process whilst working towards a desired destination and so now I (can) wake up every day actively excited about the possibilities that life holds and that means doing something about making the possibilities happen to me. I have had my fair share of challenges and regrets but I am excited about life all the same.

Today you have obtained your 1<sup>st</sup> degree and just beginning another segment of your life's journey and I can assure you based on my experience that there are many reasons why you should be excited about this journey if only you are ready to do what it takes to make it fulfilling for you. It will require a lot of effort but will be worth every bit of it.

Over my adult life, I have been blessed with great teachers and one of them has been a habit I have cultivated of collecting and meditating on ordinary and yet 'profound' statements and would like to share just one with you in the 5 minutes that we have together, (and it is this The market/world does not hire people to motivate them, but rather hires motivated people? Just pause and think about that!

The question then is who is a motivational person? Can it be learnt and how does an individual become one? Yes it can be learnt and you can become one by developing the attributes of a motivated person.

- What is it about a motivated person that attracts employer, clients, colleagues, suitors, everything to him/her? I think the saying 'attitude is everything' says it all.
- It's their passion, enthusiasm, and energy - they do everything with a sense of purpose they are contributors not job seekers, they do more than their job description, they offer help when needed  
They are productively hardworking  
They are self learners especially in these days of the internet; they develop their skills so that they can work smart and not just long hours or busy so that they can make a real contribution.
- Strive for excellence, they are thorough, go the extra mile - you ask him to iron a shirt, he starches it as well and presents it without a crease.
- Reliable/dependable - he is there when needed, he is well most of the time (take care of your health), ladies do not use your periods and/or pregnancy as an excuse to underperform find suitable exercise, remedies medication, etc. to take care of issues; he has minimum family emergencies - whether real or made up (make back-up arrangements for family situations). After all what is the use of anybody if you are not available?

28 years ago, a first degree was something; today even a PhD alone does not guarantee you anything.

Who has looked at the papers today or over the last week? Each day there are jobs being advertised, check the economist and even though there is worldwide recession, jobs are being advertised all the time. So the issue is not that there are no prospects but that you do not have the qualifications or requisite value yet.

Today you all have obtained 1st degrees but remember, the market pays for value and not your certificate so the question is what do you see yourself becoming in 5, 10, 20 years time and what are you prepared to do to make it happen for you? What sets you part from the person sitting next to you today and what will differentiate you tomorrow? This is really where the value lies and that is where the excitement should be.

Distinguished graduands, are you prepared to build the capacity you need to access the opportunities the market offers? Developing the capacity and creating value will cost you - your time and effort and perhaps more. Start from somewhere even if it means offering your services for free initially if you have to. It will provide you a platform to demonstrate what you have whilst building your capacity. You may not have the experience to be the CEO of a company today but you may be allowed to be his clerk especially if it is free and that then puts you in a great learning environment - you learn how to dress, comport yourself, how to speak, you learn how they write, the list is endless etc.

If you are feeling lost as to where to start all this motivation and value-creation effort, my recommendation is my latest found love, a book by Steve Scott, titled, 'Mentored by a Millionaire'.

You can find a used one on Amazon.com for \$3 or less but it is a diamond mine and believe me pick it up today, you will be decades ahead of your time.

Again, just remember, that the market, the world, in fact life hires and rewards motivated people but does not hire to motivate.

Distinguished graduands, today unlike 28 years ago, the world is your market place, go for it guys and God bless!

**MRS HARRIET AMISSAH-ARTHUR  
ALUMNA**

**SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE-  
CHANCELLOR OF KNUST AT THE 44TH CONGREGATION CEREMONY FOR  
THE COLLEGE OF ENGINEERING (CIVIL AND GEOMATIC/CHEMICAL AND  
MATERIALS ENGINEERING - MORNING SESSION) ON FRIDAY, 25<sup>th</sup> JUNE,  
2010 AT 9:00AM IN THE GREAT HALL OF KNUST, KUMASI**

**SALUTATION**

Chancellor of KNUST or Representative  
Chairman of Council  
Honourable Ministers and Members of Parliament  
Your Excellencies, Members of the Diplomatic Corps  
Members of the Council of State  
Members of the University Council  
Colleague Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors of Sister Institutions  
Past Vice-Chancellors and Pro Vice-Chancellors  
Registrar and Registrars from Sister Institutions  
College Provosts  
Deans and Directors  
Heads of Department  
Nananom  
Guest Speaker  
Members of Convocation  
Alumni  
Senior and Junior Staff  
Parents and Guardians  
Graduands  
Distinguished Invited Guests  
Ladies and Gentlemen

**INTRODUCTION AND WELCOME**

On behalf of the University Council, Faculty Members and the entire University community, it is my greatest pleasure to welcome you to today's graduation ceremony for our College of Engineering. As our schedule for this year's graduation ceremony indicates, we are billed to have two sessions today too as we have done since Monday. This morning we have gathered here to present students from the Faculty of Civil and Geomatic Engineering as well as the Faculty of Chemical and Materials Engineering. A similar ceremony will be organised in the afternoon for the Faculties of Electrical and Computer as well as Mechanical and Agricultural Engineering.

Congregations are very important events on the calendar of every University. They are assemblies of the Senior Members of the academic units of a University, organised basically to receive reports on the University's activities and to award degrees to deserving students who have followed a prescribed course of study. Ours this morning will follow this pattern. I will through my short address, highlight on some activities that took place in the last academic year with specific reference to the Faculty of Civil and Geomatic as well as the Faculty of Chemical and Materials Engineering after which students from the two Faculties will be presented for their certificates, We in the University are also happy and privileged to



have you add colour to these ceremonies, These gestures go to buttress the point that the public is, indeed, very much interested in the internal activities of the University.

## **THE FACULTIES OF CIVIL AND GEOMATIC & CHEMICAL AND MATERIALS ENGINEERING**

Distinguished ladies and gentlemen, as I intimated earlier in my address, today's entire ceremony, (both morning and afternoon) has been dedicated to the College of Engineering. This is partly as a result of the sheer number of students who are graduating from the College, reputed to be one of the oldest, popular and populous Colleges of the University. It may be of interest to you to know that, the College of Engineering was established formerly as a School in October 1952 and it was mandated to prepare students for professional qualifications only. It has since grown and expanded, and responded to the human resource and development needs of the country. Now as a College, it has four Faculties with thirteen programmes, run under nine Departments. The College has two Research Centres - the popular Technology Consultancy Centre (TCC) and, more recently, the Energy Centre. The Faculties include the Faculty of Chemical and Materials Engineering, Faculty of Civil and Geomatic Engineering, Faculty of Electrical and Computer Engineering and the Faculty of Mechanical and Agricultural Engineering. However, as I intimated earlier, only students from the Faculty of Civil and Geomatic Engineering as well as the Faculty of Chemical and Materials Engineering will be presented at this morning's session.

At this point, please let me say a word or two about the Faculty of Chemical and Materials Engineering. The Faculty has two academic Departments - the Department of Chemical Engineering and Department of Materials Engineering. They together run four programmes in Chemical Engineering, Petroleum Engineering, Petrochemical Engineering and Materials Engineering. However, three of the above programmes are run under the Department of Chemical Engineering. The Petrochemical Engineering programme was introduced during the 2009/2010 academic year in response to manpower needs to support the emerging oil and gas industry.

The Faculty of Civil and Geomatic Engineering on the other hand has three Departments - the Department of Civil Engineering, Department of Geomatic Engineering and the Department of Geological Engineering. This Faculty continues to play very important roles in the road, water, sanitation, geotechnical, geological and geomatic sectors of the economy through the provision of training programmes and periodic community services.

Distinguished ladies and gentlemen, the College of Engineering in order to produce graduates who will fit very well into industry continues its links with Industry. Thus far, engagements with the Volta River Authority (VRA), Terna Oil Refinery (TOR), the Community Water and Sanitation Agency (CWSA), the National Development Planning Commission and the Electricity Company of Ghana (ECG); among others, have been very beneficial to the College. Similar contacts were also established with the Ghana Grid Company (GRIDOo). Under the aegis of these industrial contacts, the VRA provided opportunities for faculty members (to attend conferences, opened its doors for staff to witness major maintenance works at their thermal plant at Aboadze and provided funds for maintenance and upgrading of an x-ray diffractometer machine at our Department of Materials Engineering.

During the year under review, the two Faculties, (Civil & Geomatic and Chemical &

Mechanical Engineering) embarked on several collaborative projects with other sister institutions which collaboration benefited the Faculties immensely, The Sustainable Water Management improves tomorrow's cities Health (SWITCH) project provided an amount of 250,000 Euros for allocation to students of our Civil Engineering Department to support their research projects. The SWITCH is a research project comprising 33 consortium partners representing academics, urban planners, water utilities and consultants with research and demonstration activities in ten cities across the globe. The goal of the project is to improve the scientific basis for the development and management of the urban water Systems to ensure that they are robust, flexible and adaptable to a range of future pressure.

The Water Resources and! Environmental Sanitation Project (WRESP) established at the Department of Civil Engineering continued to provide the .needed research base and capacity building of sector professionals, technicians and policy ;makers in the water and sanitation sectors. The project which was started with financial support from UNESCO-IHE's Institute for Water Education has successfully established two MSc programmes in Water Supply and Environmental Sanitation and Water Resources Engineering Management. The two programmes have successfully trained 130 professionals from Ghana, Rwanda, Benin, Nigeria and Burkina Faso. The project has thus far benefited from a Dutch grant of 2.15million Euros and is working for the commencement of Phase III.

In addition to the above, the Department of Civil Engineering is also collaborating with the International Water and Sanitation Centre IRC, The Hague, the Netherlands on the Water, Sanitation and Hygiene Cost (WASHCost) project. The project seeks to quantify the cost of sustainable water, sanitation and hygiene (WASH) services in rural and peri-urban areas and facilitates the process of putting the knowledge to use. The WASHCost project is being implemented in four countries - Ghana, Burkina Faso, Mozambique and India. Thus far, WASHCost has been able to develop a methodology for quantifying the life cycle cost of WASH service delivery and has applied the methodology in collecting data in the Northern, Ashanti and Volta Regions in Ghana.

WASHCost Ghana which is hosted by our Department of Civil Engineering has established a learning alliance where stakeholders meet periodically to discuss the research findings and examine how the findings could be put to use in the water and sanitation sector. The key stakeholders for the action research are the Water Directorate, Ministry of Water Resources, Works and Housing, Community Water and Sanitation Agency (CWSA), Ministry of Local Government and Rural Development, and the National Development Planning Commission (NDPC). WASHCost briefing note on the Life Cycle Costing approach and a working paper on the water service ladder are available at the project website ([www.washcost.net/ghana](http://www.washcost.net/ghana)) and I am happy to report that, KNUST is hosting the WASHCost project in Ghana from 2008, up to 2012. Under tile aegis of the above project, the University through the Department of Civil Engineering a couple of weeks ago, hosted the 4Jh International WASHCost Research Workshop where' preliminary findings were discussed on the current, actual magnitude and relative magnitude of different cost components per technology and the current, actual magnitude and relative magnitude of different cost components. per service level.

The Department of Civil Engineering has again been awarded a grant of £ 1 million by the Wellcometrust of the United Kingdom under the scientists Networked for Outcomes from Water and Sanitation (SNOWS) project. The grant has been awarded as part of wider programme which aims to build a critical mass of sustainable local research and capacity

across Africa through the strengthening of African Universities and research institutions in the field of water supply, sanitation and environmental health. The African SNOWS, as the project is known, is a consortium of nine partners Universities – six African Universities and three European University counterparts and proudly, our University is the lead African Institution and may as such, make sure-award to sub-awardees in order to achieve the aims of the project.

Internationally, there were several collaborations that were either started or continued with the College of Engineering. In this direction, I am happy to inform you that, The College's links with North Carolina A & T provided avenues for the training of manpower to the PhD level. There is also growing links with Rennsalaer Polytechnic Institute of New York under which linkage staff and student exchange will start this summer. There is also the possibility of a team of experts from pyrolysis of agricultural waste using the Juaben Oil Mills as the case study under the same Rennsalaer Polytechnic Institute of New York Linkage.

Similarly, the College's cherished links with Texas Instruments has continued to grow year in year out and thus far, the College has benefited through the: provision of Cadence software, which can be used by both students and staff for integratecell circuit (IC) design. The software has been successfully tested. And staff and students of the College will soon start using it for design works. A couple of months ago, Princeton University also organised a design workshop; bringing together, students of both Universities and I am happy to inform you that, all the equipment that were used for the Workshop were donated to the Department of Materials Engineering after the Workshop.

During the year under review, the College further benefited from Schlumberger's donation of propriety software worth US\$2.5million to the Department of Petroleum Engineering. Talks have also been concluded and a Memorandum of Understanding (MOU) has been signed with the software giant SAP for the College to host and provide training in the use of SAP Business Software. A train-the-trainer Workshop will soon be organised for selected staff of the University on the use of this software. The Department of Chemical Engineering was also awarded a research grant of GH¢10,850.00 within the framework of British Council's African Knowledge Transfer Partnership (AKTP) that links the KNUST and Zoomlion to carry out research on land filling and composting. The grant is to assist the Department acquire laboratory equipment and offer the two partners access to our laboratories in the course of the work which is planned for a two-year period.

### **THE GRADUATING CLASS**

Distinguished ladies and gentlemen, permit me to say a word about the kind of students we are graduating this morning. There are a total of 413 students graduating from the two Faculties. Out of this number 21 students are graduating with First Class degrees, another 194 are graduating with Second Class (Upper Division) degrees and 177 are graduating with second class (Lower Division) degrees. The remaining 21 students obtained Pass degrees.

Over all, it can be said that these students comprise "*la creme de la creme*" within their cohort when they took the SSSCE examination four or five years ago. Congratulations to our graduating class.

### **ADVICE TO GRADUANDS**

My distinguished graduate engineers, this morning's function marks your formal exit from the University as undergraduate students and as Vodafone says, "*this is your time*". This obviously is a great moment in your lives but upon a sober reflection, you would realise that,

the freedom you seem to have gained has a lot of responsibilities attached to it. You would no longer be regarded as students and, hence, may not be accorded the tender care and sometimes preferential treatment given to students in our Ghanaian society. It may surprise you to know that, henceforth, you would be regarded as full-blown adults and be required to behave and live as such. The sudden transition may excite you but do not be discouraged; accept the challenge wholeheartedly and make the best out of it. It should not surprise you to be called to come and handle all manner of problems which may not have any bearing with your training. People may call you to come and fix their cars, washing machines, personal computers and the like. Do not be surprised for in the typical Ghanaian society. The engineer is supposed to be a solution to all manner of problems. When in doubt, please consult and remember that you do not have monopoly over knowledge.

You are also graduating at the time in the history of the nation where every public discourse is interspersed with issues about oil and gas. As engineers, you are well-versed in the oil and gas business. Let society benefit from your rich expertise in our quest to fully benefit from the returns of the industry. In addition, be guided by a wise saying from Brian Tracy that *"no one lives long enough to learn everything they need to learn starting from scratch. To be successful, we absolutely, positively have to find people who have already paid the price to learn the things that we need to learn to achieve our goals"*. Therefore, respect everyone you meet in the job place for the fellow may know something you may not know that may provide you with a springboard to your own dreams in life.

As engineers, you have every reason to face the future with optimism. Face the future with imagination, ingenuity and above all, sincerity. Do explore, discover and change your society for the better. Keep up your enthusiasm and follow your dreams. When you have done these things, leave the rest to God because He has promised that He will direct your steps. Once He delights in your way, He will make your steps firm and even though you stumble, you will not fall for He will uphold you with His right hand.

#### **APPRECIATION AND CONCLUSION**

As a public funded institution, the College and the University in general enjoyed the financial and material support of several organisations and individuals such as Newmont Ghana Gold, the Survey Department, Rudan Limited, Sambus Limited, Schlumberger, North Carolina A&T and Rennsalaer Polytechnic Institute of New York. Others include Juaben Oil Mills, Texas Instruments, Princeton University, the Volta River Authority, the Tema Oil Refinery, Electricity Company of Ghana and Trimble Navigation Limited of United States of America. The rest are the Ghana Air Force, Zoomlion Company Limited, Crocodile Matchets Ghana Limited, Aluworks Limited, the Takoradi Naval Base, Tema Lube Oil, and Ghacem. For all these, we are most grateful. We are also most grateful to Mr. Nii Adzei Akpor of the Ghana National Petroleum Corporation (GNPC) for offering to teach our third and final year students of the Petroleum Engineering programme for the past four continuous years, courses in Formation Evaluation and Well Logging for gratis. If he is here, please let us see you.

#### ***Nii, oyi wadoon!!***

The Government of Ghana has been our major benefactor as a university and we will forever remain grateful. I also duly acknowledge the tremendous sacrifices of your parents and guardians. I also thank your lecturers and all other support staff for their invaluable input into your success story today.

Please remember that the God of our weary years and the God of our silent tears who has

brought you thus far on the way will see you through as you commence your careers as young engineers.

I wish you God's grace in your future endeavours.

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE-CHANCELLOR**

## **DAY FIVE (AFTERNOON SESSION)**

### **VALEDICTORY SPEECH DELIVERED BY MISS JUDY MARIAM AMANOR-BADU GRADUAND OF COLLEGE OF ENGINEERING ON THE OCCASION OF THE 44TH CONGREGATION OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI HELD ON JUNE 25, 2010 FOR THE COLLEGE OF ENGINEERING (FACULTY OF ELECTRICAL & COMPUTER AND FACULTY OF MECHANICAL & AGRICULTURE ENGINEERING) IN THE GREAT HALL AT 13 HOURS**

Otumfuo Osei Tutu, Asantehene and Chancellor

Nananom

Members of the Diplomatic Core

Vice-Chancellor

Pro Vice-Chancellor

Faculty and Senior members Dear Parents and Friends

My Fellow Graduands

All Other Protocol Observed, allow me to humbly welcome you to the 2010 congregation ceremonies of the College of Engineering.

Permit me to begin with an expression of my gratitude to my teachers and fellow graduands for choosing me to represent the College of Engineering Class of 2010. This is an honour that I will cherish for the rest of my life, and for that I am sincerely grateful.

First things first. Let me thank all those who have worked tirelessly to make this day possible. The staff that prepared and decorated the hall for us, the sound technicians who have made it possible for my quiet voice to be amplified and the design and air conditioning engineers who thoughtfully anticipated our discomfort. But also, the janitors and other-behind-the-scene people who always make everything beautiful and wonderful. Thank you all.

Fellow graduands today marks the beginning of a very significant phase in our lives. The good news is that we have been preparing for this day for many years. Some of us took the short cut because we knew we wanted to be engineers from a very early age and prepared through the careful mentoring of family and friends and the tutoring of teachers. Others came here the long way, finding they have no choice but to become engineers because Fate had chosen them. Regardless of the path you took to arrive at this place at this time, you have been very diligent and disciplined at it. Congratulations. I am confident your friends and family are as proud of you as mine are of me.

Four years ago, we walked into this very room for orientation, not knowing what to expect from this noble university. We can look back and recall many remarkable events over these past four years. I think our best years are ahead of us as we prepare to contribute to the development and wellbeing of Ghanaians and of humanity. This has been the rationale for your training - service to humanity. Because we are now engineers, we can now move from a reactive into a proactive frame of mind, whereby we anticipate problem and develop innovative and creative solutions to address them. As I think about the challenges facing us, I cannot help but remember all those nights when we studied with torch lights and candles because Akosombo did not have enough water to generate electricity. I am charging you, my

fellow graduands, with the job of addressing once and for all the energy problems facing Ghana and the world before you reach the middle years of your careers. With the world at our beckon through the internet and social media, we have the resources to develop real solutions to this important problem so we can shine the light on our names and that of our beloved KNUST.

But it is not just electricity and energy that prevent our rapid acceleration into a developed economy. Transportation is another major challenge. I am sure, Your Excellencies that you all experienced the traffic chaos as you travelled to celebrate this important occasion with us. My fellow graduands, we have been trained to think boldly and creatively about these challenges. Wouldn't it be wonderfully exciting if one or a few of us graduating students today find a way to eliminate the gridlock that transforms a 10-minute trip into a two-hour journey!

My charge to you, dear fellow graduands, is that with a creative and careful focus on these challenges, we have the ability within us to make a difference and improve the wellbeing of humanity. When power fails, someone dies on an operating table somewhere. When the traffic locks up, someone in need of emergency medical care fails to get it. This is why we have to find creative solutions to these important problems. And I am confident that given our training and our inherent creativity, and resources the world is throwing at us, we can and we will.

Now, let me turn my attention to the reason why our friends, family and teachers are here to hear the word of gratitude that they so much deserve.

We were privileged to have an excellent and selfless faculty for sharing their knowledge with us, challenging us to think as engineers and mentoring us to live like human beings. I am not going to mention any specific person because we all have our favourite lecturers. In the end, it is not about mid-semester exams or examination marks, but it is about what you have gained as a person that truly matters. It is about learning about yourself and trying to better yourself. I believe our lecturers and instructors, laboratory technicians and support staff have tried their best to teach us this. I salute you and say Thank you.

Next, I recognize our families and friends for their financial and emotional support, but most importantly for their encouragement and belief in us. Because of their unflinching confidence in our abilities, we have confidently taken on our training and today we sit here as evidence of how love makes magic by turning little runny nose children into engineers.

Each of us has benefitted from the hug and attention of someone when the going was tough. Whether we said thank you at the time or neglected to do so, I now send a blanket thank you to all those who have showed us these little acts of love and attention as we made our way to this day. We are grateful for the care and promise to return the favour to the ones coming after us.

My dear fellow graduands, we know how much we owe to each other for where we sit today. Some of my lifelong friendships started when I arrived here on the campus of KNUST four years ago. These people have stayed by me and studied with me, explained some of the complex concepts to me and helped me to solve problems that confounded me. I know we have each benefited from the friendships we developed here and will continue to cherish

them. I want to thank all of you, especially those who took the time to share their life with me during these past four important years.

Nananom, Your Excellencies, Mr. Vice-Chancellor, ladies and gentlemen, I thank you for taking the time out of your very busy schedules to participate in this annual ritual with us. But this is a very special one, perhaps the only one you will always want to remember, because the College of Engineering Class of 2010 will be making significant contribution over the coming years, and you will always remember this day when you hear and see their work.

Fellow graduands, as we end one glorious chapter of our lives, a new one begins. We have a fresh blank page ahead of us. It is up to us to grab our pens and write our own stories. I ask you graduates to take this opportunity to write an unforgettable chapter filled with the fulfillment of your dreams and desires. Let us take what we have learned and let it guide us through to our futures. Let us. Build on our experiences to better ourselves and others around us. Getting a degree tonight is not the end of graduation but rather the beginning of something special.

Congratulations, Class of 2010! it is our time to shine.

**MISS JUDY MARIAM AMANOR-BADU**  
**GRADUAND**



**SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE-  
CHANCELLOR OF KNUST ON THE OCCASION OF THE 44TH  
CONGREGATION HELD IN THE GREAT HALL ON FRIDAY, 25<sup>TH</sup> JUNE, 2010  
(AFTERNOON SESSION) FOR THE FACULTY OF ELECTRICAL AND  
COMPUTER ENGINEERING, AND FACULTY OF MECHANICAL AND  
AGRICULTURAL ENGINEERING OF THE COLLEGE OF ENGINEERING**

**SALUTATION**

Your Excellency, the President of the Republic of Ghana  
Your Majesty, Otumfuo Osei Tutu II, Chancellor  
Chairman of the University Council  
Honourable Minister of Education  
Honourable Ministers of State  
Your Excellencies, Members of the Diplomatic Corps  
Nananom  
Members of the Clergy  
Colleague Vice-Chancellors, Rectors and Principals  
Past KNUST Vice-Chancellors and Pro Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors of Sister Universities  
Executive Secretary - NCTE  
Registrar and Registrars of Sister Universities  
Guest Speaker  
Members of the University Council  
Provosts  
Deans and Directors  
Heads of Department  
Alumni of the University  
Members of Convocation  
Senior and Junior Staff  
Excited Parents  
Graduands and KNUST Class of 2010  
Members of the Media  
Distinguished Invited Guests  
Ladies and gentlemen

**INTRODUCTION AND WELCOME**

As the Vice-Chancellor of this University, I have the singular honour and pleasure to welcome you to this afternoon's function which marks the graduation ceremony for our students from the Faculty of Electrical and Computer Engineering, and Faculty of Mechanical and Agricultural Engineering of the College of Engineering. As you may be aware, we have had similar ceremonies for the Colleges of Art and Social Sciences, Architecture and Planning, Agriculture and Natural Resources and Science. The graduands from the College of Health Sciences and School of Graduate Studies will have their turn tomorrow to climax the entire ceremony.

**COLLEGE OF ENGINEERING**

Distinguished ladies and gentlemen, today's entire ceremony, both morning and afternoon has been dedicated to the College of Engineering. This is partly as a result of the shear

number of students who are graduating from the College, reputed to be one of the oldest, popular and populous Colleges of the University. It may be of interest for you to know that, the College of Engineering was established formerly as a School in October 1952 and was mandated to prepare students for professional qualifications only. It has since grown and expanded and responded to the human resource and development needs of the country. Now as a College, it has four Faculties with thirteen programmes, run under nine Departments. The College has two Research Centres - the famous Technology Consultancy Centre (TCC) and, more recently, the Energy Centre. The Faculties include the Faculty of Chemical and Materials Engineering, Faculty of Civil and Geomatic Engineering, Faculty of Electrical and Computer Engineering and the Faculty of Mechanical and Agricultural Engineering. However, as I intimated earlier, only students from Faculty of Electrical and Computer Engineering, and Faculty of Mechanical and Agricultural Engineering will be presented at this afternoon's session.

Ladies and gentlemen, the College of Engineering in order to produce graduates who will fit very well into industry continues its links with Industry. Thus far, discussions with the Volta River Authority (VRA), Tema Oil Refinery (TOR) and the Electricity Company of Ghana (ECG) have been very beneficial to the College. Similar contacts were also established with the Ghana Grid Company (GRIDCo). Under the aegis of these industrial contacts, the VRA provided opportunities for faculty members to attend conferences, opened its doors for staff to witness major maintenance works at their thermal plant at Aboadze and provided funds for maintenance and upgrading of an x-ray diffractometer machine at our Department of Materials Engineering. The ECG also donated a High Voltage Laboratory to the Electrical Engineering Department and is together with VRA and GRIDCo further helping the University to set up a committee of engineers from the relevant professional institutions to assist the University to conduct a study on the power supply and distribution systems to the KNUST enclave and recommend the appropriate actions to be taken to maintain and upgrade the system. This assignment is being coordinated by the Director of Power of the Ministry of Energy, ECG, VRA and the University's Department of Electrical and Electronic Engineering as well as the University's Electrical Consultant.

The Technology Consultancy Centre, (TCC) continued to play its critical role as the research and business innovation centre of the College with its main activities being research and development transfer of technology and innovation aimed at harnessing science technology and innovation for solving basic needs of food, energy, water, health, housing enterprise development, wealth creation and poverty reduction. During the year under review, there was a sod-cutting ceremony for the commencement of work on Ghana's first and Africa's second Technology Park south of the Sahara on 18<sup>th</sup> February, 2010. The Park will bring together a community of leading-edge thinkers across all scientific, technological and industrial disciplines in an environment primed for collaboration and nurturing of ideas. This will promote greater foundational growth for companies and firms that will reside at the Park and enhance technology-based industries with research development capabilities and training while partnering with industry leaders. A Memorandum of Understanding between KNUST and IBIS TEK was signed and a US\$2million loan facility has been sought for this purpose.

The Energy Centre also continued to be an active unit of the College. The Centre currently has two major projects which are the GIS-based Energy Access Project which is financed by the European Union Energy Initiative's Partnership Dialogue Facility (EUEI-PDF) and the

Renewable Energy Education Project (REEP) which is financed by the EDULink Programme of the European Union's ACP Secretariat with total funding of around 800,000.00 Euros. In addition to the above, the Centre has a host of smaller projects financed by national and international organisations including the Ghana Education Trust Fund (GETFund), the Ministry of Energy, the Energy Commission, UNIDO, Trust Africa, UNESCO and Hewlett Packard.

The Centre also organised two short courses on Solar PV Technology in May and trained experts from Ghana, Nigeria and Gabon. The Centre is also collaborating with the International Institute for Water and Environmental Engineering (2iE) of Burkina Faso for a funding of US\$1million from the World Bank's Energy Sector Management Assistance Programme (ESMAP) for a solar capacity upgrading project.

Internationally, there were several collaborations that were either started or continued with the College under review. In this direction, I am happy to inform you that, the College's links with North Carolina A & T provided avenues for the training of manpower to the PhD level. There is also a growing link with Rennsalaer Polytechnic Institute of New York under which linkage staff and student exchange will start this summer. There is also the possibility of a team of experts from both institutions to develop an instrumentation for on-line gaseous materials analysis from pyrolysis of agricultural waste using the Juaben Oil Mills as the case study under the same Rennsalaer Polytechnic Institute of New York linkage.

Similarly, the College's cherished links with Texas Instruments has continued to grow year in year out and thus far, the College has benefited through the provision of Cadence software, which can be used by both students and staff for integrated circuit (IC) design. The software has been successfully tested and staff and students of the College will soon start using it for design works. A couple of months ago, Princeton University also organised a design workshop; bringing together, students of both Universities and I am happy to inform you that, all the equipment that were used for the Workshop were donated to the Department of Materials Engineering after the Workshop.

Talks have also been concluded and a Memorandum of Understanding (MOU) has been signed with the software giant SAP for the College to host and provide training in the use of SAP Business Software. A train the trainer Workshop will soon be organised for selected staff of the University on the use of this software. The Faculty of Electrical and Computer Engineering also hosts a Cisco Local Academy that provides opportunity for students to enhance their employment skills in the field of Computer Networking.

During the year under review the faculty members continued to research into areas that are very pertinent to the development of the country. The active research areas included optimisation of efficiency of earth electrodes, applications of ANN to power systems and product design and development for local applications. Some of you may recall that in my last year's speech I mentioned that students and staff of the College had designed and developed a prepaid metre for local manufacture and a formal presentation would be made to the Electricity Company of Ghana. It is our hope that ECG, VRA and private enterprises will explore the possibility of mass-producing **it** for a wider use. The research topics of staff members continued to attract modest funding. A total amount of US\$45,350 was won from the AfricaTrust for research into biodiesel study. Also, the WAAPP/CSIR had granted the

College an amount of US\$56,000 to carry research into demonstrating mechanical harvesting technology. The Energy Commission and the KNUST jointly provided GH¢17,000 for research into the use of waste vegetable oils as biodiesel fuel.

The Faculties offer varied programmes leading to the award of Bachelor of Science degrees in, Electrical/Electronic Engineering, Computer Engineering, Telecommunications Engineering, Bio-Medical Engineering, Mechanical Engineering, Agricultural Engineering and Aerospace Engineering.

It is gratifying to note that the Ghana Civil Aviation Authority has continued to support the Chair of the Aerospace Engineering programme. The Ghana Air Force being the major supporter of the programme has made available its workshops for hands-on training for the students and has also provided places for internship. It also recruits suitable candidates for the Air Force.

### **INFRASTRUCTURE DEVELOPMENT**

It has now become evidently clear that the Government alone cannot provide the needed infrastructure. The College had and continues to assist in this direction through its internally generated funds. The College in the past had used its internally generated funds to put up Offices, Laboratory Building Complex and had paid for equipment housed in the Telecommunications Laboratory. In spite of this effort the College still requires more spaces for lecture rooms, laboratories and offices and will accept any assistance from any quarters. Contract for the construction of the five-storey so-called "N-Block" has been awarded and construction has started in earnest. It is again to be funded from internally generated funds. It is hoped that when completed it will provide enough space for both undergraduate and graduate lectures and staff offices.

The College hopes that an agreement will soon be concluded to enable Public Private Partnership (PPP) participation to provide the necessary platform for training engineering students in the use of relevant engineering software. Discussions have also started with Vodafone Ghana to provide a fast internet cafe at the premises of the College.

### **GRADUATING CLASS OF 2010**

This year, the Faculties of Electrical/Computer Engineering and Mechanical/Agricultural Engineering are presenting 346 students for graduation. The number comprises 44 students graduating with First Class degrees, 166 students graduating with Second Class (Upper Division) degrees, 115 with Second Class (Lower Division) degrees and the remaining 21 are going home with Pass degrees.

### **ADVICE TO STUDENTS**

We are not unaware of the sleepless nights you had, the hunger you went through, the struggle to get a good Cumulative Weighted Average (CWA), the wrath of a lecturer you incurred, for the last four (4) years, all in the name of gunning for a degree at the number one University in Ghana. You have today attained the goal and have to be honoured for your accomplishment. I say *ayekoo!* As you leave the four walls of this noble University, be mindful of the fact that the University has given you the best of educational and training opportunities needed to propel the development agenda of our dear nation, Ghana, and beyond.

As you may be aware, the nation and all stakeholders in your education expect a lot from you. You will soon be enrolled for your national service to give back what the nation has given you. Eschew laziness, mediocrity, dishonesty and truancy at work. You are mirrors through which Kwame Nkrumah University of Science and Technology (KNUST) is seen. Your conduct will either project or sink this University as you are its ambassadors. I know some of you will enter the world of work and others will pursue further academic careers. Whichever way you may want to thread, I entreat you to excel. *"Hard work does not break bones"*. We are confronted with mirage of problems today, spanning from frequent power outages, water shortages, rampant road accidents, cyber fraud, to influx of inferior electrical and electronic materials into this country. Rise up to the occasion by exploring new avenues and improving on the old system.

It is no coincidence that you are part of this 44th Congregation. The number forty-four (44) connotes the qualities of impeccability, desire with insight, wisdom with reason, intensity, conviction, *adeptship*, heroism, self-control, discipline and controlled energy focussed. These are the qualities I want you to imbibe as you leave this University for the world.

### **BENEFACTORS**

A number of organizations have continued to give extremely valuable support to the College to enhance teaching and research activities. We wish to express our profound gratitude to the following organizations:

- The ECG for donating a High Voltage laboratory to the Electrical Engineering Department;
- VRA for providing about 15,000 Euros for the maintenance repairs and upgrade of software for the x-ray diffractometer in the Materials Engineering Laboratory; .
- Texas Instruments for donating a Cadence Software and workstations to be used by staff and students for integrated circuit design;
- The Ghana Air Force (GAF) for the donation of computers, printers and accessories to the Aerospace Engineering program. It also provided internship for our aerospace engineering students during the long vacation;

- Zoomlion Company Limited for responding to an appeal by final year Mechanical Engineering students and donated an amount of GH¢940.00 to assist their project work;
- The Crocodile Matchets Ghana Limited, Tema;
- The Volta River Authority;
- Aluworks Limited, Tema;
- the Takoradi Naval Base;
- the Tema Lube Oil;
- the Tema Oil Refinery; and
- University of Electronic Science and Technology of China (UESTC) for awarding scholarships to four academic staff to undertake postgraduate studies in Computer and Telecommunication Engineering;
- Opoku Transport Award of GH¢500.00 to the best third year student of Electrical/Electronic Engineering;
- Bamfo Kwakye Memorial Scholarship yearly award of GH¢1,500.00 for third year brilliant but needy students of the Faculty;
- Ghacem, Tema; for their continuous support for our students' industrial visit; and
- Millicom Ghana Ltd for instituting a yearly award of GH¢1,000.00 each to the best female and the best overall final year Telecommunication Engineering students.

## **CONCLUSION**

Distinguished invited Guests, Ladies and Gentlemen, let me take this opportunity to pay tribute to all of you who played a role in the formation of these gradaunds. To parents and guardians who contributed by way of money, material and advice, I say *ayekoo!* We also appreciate the love, commitment and care our hardworking teaching and non-teaching staff exhibited throughout the stay of the graduands on campus. They served as *loco parentis* for them. Together, you have created in these graduands a vibrant, inclusive and creative culture that we hope will provide them with opportunities for the enhancement of their lives beyond this University. As you leave this University, I pray that the good Lord will take care of you wherever you go. Know your creator and serve him. We have trained you to know your God and to serve him. I, therefore, have no fears that you will live upright lives.

On this note, I wish you all the best in your future endeavours.

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE-CHANCELLOR**

## **DAY SIX (MORNING SESSION)**

### **SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE CHANCELLOR OF KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI, ON THE OCCASION OF THE 44TH CONGREGATION HELD ON JUNE 26, 2010 (MORNING SESSION) FOR THE SCHOOL OF GRADUATE STUDIES AT 9.00 A.M.**

#### **SALUTATION**

Your Majesty, Otumfuo Osei Tutu II, Chancellor of the University

Your Excellencies, Members of the Diplomatic Corps

President of ACP

Members of the Council of State

Honourable Ministers of Education

Past KNUST Vice-Chancellors and Pro Vice-Chancellors

Colleague Vice-Chancellors

Pro Vice-Chancellor and Pro Vice-Chancellors from Sister Universities

Registrar and Registrars from Sister Universities

Provosts of Colleges

Deans of Faculties, Directors and Heads of Departments

Heads of Departments

Nananom

Guest Speaker

Members of Convocation

Alumni of the University

Senior and Junior Staff

Class of 2010

Proud and Relieved Parents

Members of the Press

Distinguished Invited Guests

Ladies and Gentlemen

#### **INTRODUCTION AND WELCOME**

On behalf of Council, faculty members and the graduating class of 2010, I would like to welcome you all to this morning's function. As you may be aware, we have already held ten different sessions of congregation; including the one that took place yesterday. In addition, the final one will take place this afternoon but this morning's session is primarily for the School of Graduate Studies. It is our hope that the short time you spend with us today will be a blessing and also beneficial to you. For those of you visiting the campus for the first time, I hope you are able to see as much of the campus as you can. For any reason, if you are unable to see much of the campus, please find time to visit again.

#### **THE SCHOOL OF GRADUATE STUDIES**

The School of Graduate Studies (SGS), which was established in 1974 and elevated to a School status in 2002, is gradually finding its rightful place within the University community. As an umbrella unit, the School plays a facilitative, coordinating and an auditing role in the conduct of postgraduate studies in the University. Consequently, it is very easy to overlook its role and, instead, see it as a mere "rubber stamping" unit but in reality, it assures that certain minimum standards are maintained in all graduate programmes in this University.

Since its inception, the School's main objective has been the training and development of higher degree graduates to acquire specialized skills in various disciplines; particularly, in science and technology. It was anticipated that our graduate students will provide appropriate research initiative and leadership in industry, commerce and other related sectors of the economy. Indeed, we have actually lived up to this expectation as is evidenced by the several alumni heading various infrastructural development and utility agencies in the country. Others are also in responsible management positions all over the country.

Currently, the graduate programmes on offer at the School include Master of Science, Master of Arts, Master of Philosophy, Master of Fine Art, Master of Pharmacy, Master of Public Health, Master of Business Administration, Executive Master of Business Administration, Commonwealth of Learning's Executive Master of Business Administration, Master of Architecture and Doctor of Philosophy. Pipeline programmes include Master of Laws, Master of Philosophy in Urban Management and Doctor of Philosophy in Soil Sciences. Other programmes to be introduced in future will be on a demand-driven basis and also in line with national development aspirations.

The total number of registered students in the School of Graduate Studies here at the KNUST in 2010 stood at 3,904 out of which 2,365 were offered admission in the 2009/2010 academic year. This rapid increase in the number of registered graduate students is the result of a policy initiative meant to grow their number from its current 18 percent of the student population to 30 percent four years hence. The work of graduate students and faculty is what will enhance our visibility.

As I indicated at the Special Congregation held in November 2009, there is the need for us to grow the population of graduate students; particularly, in areas critical to the growth and development of Ghana and other African countries. I am happy to announce that this initiative is on course and that all departments in the University are contributing to make it a success through the introduction of demand driven, cost-effective and relevant programmes. In addition, this is a way of enhancing the capacity of various departments in the sense that some of them, after obtaining their terminal degrees, will join the faculty.

In spite of the fact that the number of graduate students is increasing rapidly, it behoves on the University to ensure that it is in consonance with our core mandate as a university of science and technology. Unfortunately, the current distribution of graduate students in the Colleges would seem to be at variance with this policy rationale. Whereas the highest number of registered students of 1,131 was in the College of Art and Social Sciences, the lowest of 166 was recorded in the College of Agriculture and Natural Resources. This has occurred partly as a result of the structure of the College which is made up of four fairly large faculties and the fact that the programmes on offer in these faculties are currently very heavily patronized including the MBA programmes which are delivered via the regular mode, part time mode, executive mode and the distance mode. These programmes alone have as many as nearly 800 registered students at any particular time.

Apart from the College of Architecture and Planning which had 327 registered graduate students and Engineering where 213 students had registered, the other Colleges, namely: Health Sciences and Science, each had less than 200 registered graduate students. Clearly, this is a situation that is less than desirable and strenuous efforts would be made to correct it by enrolling more postgraduate students. Some of these efforts include outreach



programmes-in the Senior High Schools to encourage students to study mathematics, science and technology based subjects. With a long term perspective in mind, this could begin to impact on students' enrollment at the graduate level.

The Institute of Distance Learning had as many as 1,683 postgraduate students enrolled in programmes such as Industrial Mathematics, Environmental Science, Business Administration and Public Administration. Several science and technology based students are enrolled on the latter programme but, by and large, most of the students have backgrounds in the arts, humanities and the social sciences. In the years ahead of us, the demand for MBA is likely to grow but we need to make special efforts to encourage more of our science and technology based graduates to enroll in this programme because of its utility to industry as well as management in general.

### **STATISTICS ON GRADUANDS**

For this morning's Congregation, we are presenting 420 graduands compared to the 402 we presented during the November 2009 Congregation. It may therefore be concluded that, the number of postgraduate students presented for Congregations will, for now, be stabilized around 400 per session or 800 each year if we have two sessions of Congregation in each year. As is to be expected, the highest number of graduands are from the College of Art and Social Sciences where 156 will be presented. This is followed by the College of Health Sciences (84), College of Science (68), College of Engineering (43), Institute of Distance Learning (32), College of Agriculture and Natural Resources (30) as well as the College of Architecture and Planning (7).

What is also striking about this year's graduands is that, there are 15 Doctor of Philosophy graduands amongst them; the highest ever in the history of the University mainly from the College of Agriculture and Natural Resources and the College of Art and Social Sciences. We are also presenting 166 MBA/MPH graduands and 153 MSc graduands. The PhDs in Agriculture and Natural Resources were from the Department of Crop and Soil Sciences as well as the Department of Animal Science. This clearly demonstrates the potential of these Departments to produce more PhDs and hence they will be encouraged to continue to do same.

We are very excited about the PhDs because we now seem to be realizing the investments we made about six years ago. Following a few initial hiccups, we are now in a position to expect that, subsequently, we will have a reasonable number of students graduating with PhDs during each Congregation. This is important for us because the School of Graduate Studies will now serve as a pool from which we will have well qualified personnel to replace our ageing faculty.

Apart from the foregoing, the School of Graduate Studies has pursued an enviable research agenda through its students but in addition, the School has also facilitated several research projects through funding provided by the Teaching and Learning Innovation Fund (TALIF).

### **SOME RESEARCH PROJECTS AT KNUST**

Under TALIF, KNUST benefited with the implementation of 43 research projects; 19 regular projects each with total cost of up to US\$200,000 and the rest (24) being small grants with total cost being up to the US\$20,000 threshold. The total fund approved was US\$4,436,940 out of which 89.1 % has been disbursed to KNUST. Project implementers and researchers have so far utilized GHc2,770,820 or 80.6% of the total funds approved for the project.

In a number of instances, the TALIF has facilitated the establishment of facilities and environments that will enhance the conduct of research. For example, part of the funds has been used to establish a cell culture laboratory in Pharmacy, a molecular modeling and informatics facility as well as the building of a cold room facility at the Biochemistry and Biotechnology Department and the operational glass blowing and smelting unit at the Department of Chemistry. Out of these research projects at KNUST, only 23 have been completed and the rest are all on-going. Most researchers in these projects involved the use of some graduate students who played a wide range of functions.

A commercial laboratory for aflatoxins analysis has been established in the Food Science and Technology section of the Department of Biochemistry and Biotechnology. The laboratory which is the first of its kind in Ghana is solely dedicated to aflatoxin analysis. This was established with the support of TIPCEE and USAID. The services of this laboratory are intended to address one of the major food safety concerns within the food sector; especially, those in the area of maize production and processing, peanut production and processing, coconut production and processing, the oil industry and industries that use some of these products as inputs for their operations. Aflatoxin is a food contaminant which has been established to be a potent carcinogen to both animals and humans and thus require constant monitoring within the food marketing cycle for certain agricultural commodities.

This year, the Department of Biochemistry and Biotechnology has also produced another PhD graduate in the area of food biotechnology. The research focused on the upgrading of the nutritional value of cocoa pod husk for use in animal feed using biotechnological techniques. Cocoa is one of the major economic crops in Ghana creating jobs for many of the country's population and bringing economic returns to the nation. However, it also generates a lot of underutilized agricultural by-product known as the cocoa pod husk. Various attempts have been made to find use for this material, especially, its use in animal feed without any major success as a result of its high fibre content. However, through this study, biotechnological interventions have been applied using Oyster Mushroom (*Pleurotus ostreatus*) to ferment the husks for an optimum period of five weeks. This significantly increased the protein and soluble carbohydrate contents of the husks while at the same time decreasing the fibre contents significantly. At 20% replacement for corn and wheat bran in feed for broiler birds during feeding trials gave comparable result; as that of the standard broiler diets.

The fact that the mushroom-fermented Cocoa Pod Husk performed better in broiler feeding trials than commercial enzymes shows the economic and environmental advantages of fermenting the Cocoa Pod Husk with the mushroom instead of adding a commercial enzyme. This is the first ever study on the improvement of cocoa pod husk through fermentation with an edible mushroom. It is our hope that the technology would be picked up by the poultry industry. Alternatively, some entrepreneurs can collaborate with the University to commercialise it through a company to be jointly established between industry and the University.

### **ADVICE TO GRADUANDS**

At this point, it is appropriate to turn my attention to our graduands with some words of advice. While these words of advice may be intentionally general, it is expected that you will all see through them and let them guide you accordingly. After you have invested two, three or four years of your time after your undergraduate studies in this University, and worked so

hard to earn a postgraduate degree, it is only natural for you to expect that you will reap some returns as soon as possible. In the process, however, remember not to rush to chase money with the view to becoming rich over night. Please rest assured that the money you have will make you comfortable so long as you cut off frivolous expenditures, work hard and follow some basic principles in life. Your major concentration should not be only on money; it should also be on service.

Once you are employed, please be humble enough at your workplace so you can quickly develop your skills. You will come into contact with people who may be older or younger and either more knowledgeable or more experienced than you are. In all these encounters, my advice is for you to be patient, humble, trustworthy and hardworking. Once you build the trust of your employers, you would have paved the way for your success. As you all know too well, these are some of the success factors.

I will also advise you not to forget your Colleges and Departments from where you were trained. Some of your colleagues who are alumni have, in one way or the other, provided assistance to us to enable us train you. Consequently, I would also appeal to you to come over to Macedonia and help. No contribution in kind or cash is too small. It is through such contributions that most institutions over the world have been built and developed.

#### CONCLUSION

Dear Graduands, as you leave this University, let me invoke my blessings on you. *"Therefore God give you the dew of heaven, and the fatness of the earth, and plenty of corn and wine: Let people serve you, and nations bow down to you: be lord over your brethren, and let your mother's sons bow down to you: cursed be everyone who curses you, and bless he that blesses you".*

God richly bless you.

Thank you.

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE-CHANCELLOR**

## **DAY FIVE (AFTERNOON SESSION)**

### **SPEECH DELIVERED BY PROFESSOR KWASI KWAFO ADARKWA, VICE- CHANCELLOR OF KNUST AT THE 44TH CONGREGATION CEREMONY FOR THE COLLEGE OF HEALTH SCIENCES ON SATURDAY, 26<sup>TH</sup> JUNE, 2010 AT 1.00PM IN THE GREAT HALL - KNUST, KUMASI**

#### **SALUTATION**

Chancellor of KNUST  
Chairman of Council  
Honourable Ministers and Members of Parliament  
Your Excellencies, Members of the Diplomatic Corps  
Members of the Council of State  
Members of the University Council  
Colleague Vice-Chancellors  
Pro Vice-Chancellor and Pro Vice-Chancellors of Sister Institutions  
Past Vice-Chancellors and Pro Vice-Chancellors  
Registrar and Registrars from Sister Institutions  
College Provosts  
Deans and Directors  
Heads of Department  
Nananom  
Guest Speaker  
Members of Convocation  
Alumni  
Senior and Junior Staff  
Parents and Guardians  
Graduands  
Members of the Press  
Distinguished Invited Guests  
Ladies and Gentlemen

#### **INTRODUCTION**

I would like to welcome everyone here to the 12th and last session of Congregation 2010 dedicated to our College of Health Sciences, reputed to be one of the flagship Colleges of the University. As many of you may be aware, we have held similar ceremonies for the five other Colleges and this morning, we all witnessed the colourful ceremony held to graduate students from our School of Graduate Studies. This afternoon's session marks the end of the entire one-week graduation ceremony which started on the morning of Monday, 21<sup>st</sup> June, 2010.

This afternoon, we have gathered here to graduate students from four Faculties of the College of Health Sciences namely the Faculty of Allied Health Sciences, the Dental School, the School of Medical Sciences and the Faculty of Pharmacy and Pharmaceutical Sciences. The School of Veterinary Medicine has recently been established and as such, it does not have students for graduation this year.

As a science and technology University, the College of Health Sciences provides us with a tremendous platform to execute our mandate to train science and technology graduates for the socio-economic development of Ghana and Africa at large and we are very proud of this afternoon's ceremony which marks the end of the graduation ceremonies for the 44th Congregation ceremony as has been intimated earlier.

As has been our tradition, the KNUST has been graduating students less than a month after their final examination and we are determined to keep this practice and in tandem with this our cherished tradition, we have gathered here today to graduate students from all the Departments of our College of Health Sciences. This afternoon, I intend to also use this platform to inform the public on some of the activities and programmes the College of Health Sciences has pursued over the last academic year in pursuing our vision and mission.

### **ACTIVITIES AT THE COLLEGE OF HEALTH SCIENCES**

Distinguished ladies and gentlemen, our College of Health Sciences is made up of the Faculty of Pharmacy and Pharmaceutical Sciences, the Faculty of Allied Health Sciences, the School of Medical Sciences, the Dental School, and the recently established School of Veterinary Medicine. The College has the Kumasi Centre for Collaborative Research into Tropical Medicine popularly known as the KCCR as its research centre.

In an attempt to expand accessibility, several Faculties, Colleges and Departments have embarked upon planned expansion of their facilities and the College of Health Sciences is no exception. During the past academic year, work on the Clinical Block of the Dental School at the Komfo Anokye Teaching Hospital (KATH) was pursued vigorously and I am happy to inform you that, the project is nearing completion and this undoubtedly puts the Dental School in a better stead to train our dental students. Rehabilitation work in the laboratories of the Department of Pharmacology and Pharmaceutical Chemistry has also been completed. The SMS also embarked on expansion and renovation of the Department of Molecular Medicine Teaching Laboratory and rehabilitated a classroom for Human Biology III.

In addition to the above, work on the Faculty of Allied Health Sciences' building is in progress. Happily, Phase III of the Clinical Students' Hostel situated on the premises of KATH, which is receiving funding support from the Ghana Education Trust Fund (GETFund), has now been awarded on contract. A borehole was also constructed to provide a constant flow of water and promote sanitation in the College during the past academic year.

In order to provide a platform for the publication and sharing of classroom knowledge, I am happy to report that five Universities, including the KNUST and other Universities such as the University of Ghana, the University of Cape Town, the University of Western Cape, and the University of Michigan started an Open Educational Resources (OER) project aimed at making the creation and publication of open educational resources, an integral part of the university knowledge creation and dissemination processes. Students in the collaborating institutions would be able to access lecture notes, classroom discussions, and laboratory work through the internet and I am happy to inform you that, a sample of the completed programmes on the OER project is now available on the KNUST website.

I am happy to further report that, during the year under review, the College received a grant from DANIDA for the ADMER - GHANA Project. The project is aimed at building capacity on antibiotic drug use monitoring and evaluation of resistance in Ghana. The project's partners include our Department of Medical Microbiology, School of Medical Sciences, and

Faculty of Pharmacy and Pharmaceutical Sciences as well as the University of Ghana Medical School, the Food and Drugs Board, the Ghana National Drugs Programme, Staten Serum Institute, Danish partners, and the University of Copenhagen. Another grant of US\$3million was received from the Bill and Melinda Gates Foundation for the Human Resource for Health Project. Through this project, the University of Michigan is collaborating with KNUST, University of Ghana and the Ministry of Health to strengthen human resource for health in Ghana. The goal of this project is to design a roadmap for academic and government collaboration to strengthen the training and deployment of health workers in Ghana and we are happy to be part of this partnership.

Distinguished ladies and gentlemen, the College's School of Medical Sciences is also exploring the possibility of using some District Hospitals in the Ashanti Region through a programme dubbed "*a network of teaching sites*". This initiative is to help use the clinical facilities of such District Hospitals to ease congestion at our clinical teaching facility at KATH as well as strengthen our philosophy of community oriented training and enhance our service delivery in the participating District Hospitals.

In an attempt to ginger the spirit of scientific research and make such research findings known, the College organised its 2<sup>nd</sup> Scientific Conference at Miklin Hotel, Kumasi from 10<sup>th</sup> to 11<sup>th</sup> September, 2009 on the theme "*Lifestyle and Non-Communicable Diseases: Diabetes, Hypertension, Obesity and Cancers*". In all, 48 scientific papers were presented at the Conference. Some of the research projects going on as well as some abstracts of some presentations at the Conference have been published in the College's Newsletter which is an authentic source of news about the College of Health Sciences.

In order to expand accessibility to health care education in tandem with national development needs, the College through its Department of Community Health introduced a new MSc programme in Disability, Rehabilitation and Development during the year under review. An undergraduate BSc programme in Disability and Rehabilitation is, however, to be introduced soon and I am very happy to say that the programme is receiving tremendous assistance from the Netherlands Organisation for Institutional Co-operation in Higher Education (NUFFIC).

### **THE GRADUATING CLASS**

Let me at this juncture highlight on the calibre of students we are graduating today from our College of Health Sciences. In all, there are 332 students being presented for graduation this afternoon, out of which number 23 students obtained First Class degrees, 131 obtained Second Class (Upper Division) degrees while 55 students obtained Second Class (Lower Division) degrees and the remaining 123 obtained Pass degrees. The latter figure may be deceptive because the BSc Human Biology degree is not classified. In reality, the College admits the cream of SSSCE or WASSCE students in Ghana. This year for example, we were only able to offer admission to aggregate 06 candidates and there were 97 of them. College of Health Sciences, congratulations.

### **ADVICE TO GRADUANDS**

I need not remind my graduands from the College of Health Sciences that, their activities impinge on human lives. You have gone through years of vigorous training, both theory and hands-on; all aimed at equipping you adequately to take care of the health needs of mankind. As the motto of the Ghana Health Service states, "*Your Health, Our Concern*" \_ Let the health of your clients be your ultimate concern. Be kind enough; a friendly word, a smile, a hand on the shoulder of a client or some other sign of care may soothe the pain of your client

or may mean more than anything else you can do. Treat others as your equals. It may be of help if you would often ask yourself "*what would I do if it were a member of my own family?*"

Share your knowledge since it has been discovered that most common health problems could be handled earlier and better by people in their own homes. Respect the rights, dignity and traditions of your clients and work for the joy of your ability to bring relief to others. Keep learning and remain receptive to any new ideas that may come your way and remember that we all learn something new everyday. Continuing education should be part of your daily vocabulary now that there are far more avenues for continuous learning and improvement.

## **CONCLUSION**

In conclusion, I would like to acknowledge the tremendous efforts of your lecturers, parents, friends, family and the nation at large. There is little doubt that you owe your achievement today to the efforts and prayers of these interest groups. Other individuals and organisations who contributed in one way or the other to the training of these graduands are also dully acknowledged. I have no doubt that, you will go to impact society positively in every corner or sector you find yourself. Bring honour and fame to the name of your alma mater, nation, family and ultimately, to yourselves.

As you commence your careers as care givers, remember the God of your weary years and the God of your silent tears. He has brought you thus far on the way. He has by His might led you into the light. I pray that our God will keep you for ever in His path so that your feet do not stray from the places where you met Him. Otherwise, your hearts will be drunk with the wine of the world and forget Him. I pray that God will shield you with His hands. May you forever stand true to your God, true to your calling and true to your native land.

Thank you and God bless you.

**PROFESSOR KWASI KWAFO ADARKWA**  
**VICE-CHANCELLOR**