

2009

PROFESSOR VENANSIUS BARYAMUREEBA

*FACULTY OF COMPUTING AND IT, MAKERERE YUNIVERSITY
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CURRICULUM VITAE

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Curriculum Vitae—Professor Venansius Baryamureeba

Brief Resume

He is a Professor of Computer Science and holds a Ph.D. in Computer Science, M.Sc. in Computer Science, Post Graduate Diploma in Analysing Linear Programming Models and B.Sc. (Hons) among other qualifications. In 2007 Prof. Baryamureeba received the 'Top ICT Educator/ Academic' Award in Africa for 2007 and in 2008 he was appointed Judge for the African ICT Achievers Awards 2008. In November 2008 Professor Baryamureeba was included in the 2009 Edition of **Who's Who in the World**. In January 2009, Prof. Baryamureeba was considered for inclusion in the "2000 Outstanding Intellectuals of the 21st Century" by *the International Biographical Centre*, which is scheduled for publication in early 2010. In May 2009, Prof. Baryamureeba was included in the "TOP 100 Professionals-2009 by *the International Biographical Centre* in recognition of his significant contribution in the area of ICT to engender influence on the local, national and international scene. In August 2009, Prof. Baryamureeba won the 2009 TWAS-ROSSA Prize for Building Scientific Institutions for the African Region. The Academy of Sciences in the Developing World (TWAS) [www.twas.org] is an autonomous international organization, based in Trieste, Italy, that promotes scientific excellence for sustainable development in the South. In August 2009, Prof. Baryamureeba won the award of 'Most Influential ICT Personality in Uganda'.

At regional level, he coordinates (multi million dollar) regional projects and research programs aimed at building specialized computing and ICT Human Resource Capacity in Africa. At national level, he coordinates several (multi million dollar) national programs aimed at building ICT human resource capacity in universities and other tertiary institutions and the private and public sectors.

Currently he serves as Dean Faculty of Computing and Information Technology, Makerere University. He is a member of Makerere University Senate and Council, a member of several committees of Senate and Council and default chair of most committees in the Faculty of Computing and Information Technology. He is also a member of Senate for Busitema University and Mbarara University of Science and Technology. Under his leadership, the Institute of Computer Science transformed from a small unit with one academic programme, 28 students and an annual budget of US\$15,000 to a Faculty of Computing and Information Technology with over 20 academic programmes, over 5,000 students undertaking degree programmes and an annual budget of over US\$7 million by September 2005 (within a period of four years only). Today the Faculty of Computing and IT budget is over US\$10 million inclusive of development partners' funds and student population of over 6,000.

He is a member of the National Board of Advisors for the Pan African Movement since June 2009 and will serve for a renewable period of 5 years.

He has a track record as a consultant in ICT research, training, advisory services and policy and a recognised expert on e-governance. He is the Chairman and Managing Director of ICT Consults Ltd, one of the prestigious ICT consultancy firms in Africa. He is also an associate Consultant with Ernst and Young.

He is currently the Executive President of Connect Uganda Foundation, a non profit making organization that was incorporated in Uganda in May 2003 with the overall objective of stimulating new firms and creating jobs in the knowledge-intensive sector, by linking entrepreneurs and innovators with research and development, service providers, venture capitalists and partners. CONNECT Uganda enables the conversion of excellent academic research into finished products that are consumed locally and internationally. Academic institutions, low-income organisations and Non-profit making organisations utilize these products freely.

He is the Executive President of Uganda National Academy of Computing and Internet Technologies, an association that brings together all computing/ ICT faculties/ institutes in all public and private universities to address common objectives and challenges.

He is a member of the Presidential Investors Roundtable- Business Process Outsourcing working group. The President of Uganda launched the 2nd Presidential Investors Roundtable; a top-level Business Advisory Council on 21st June 2007 at Imperial Resort Beach, Entebbe, Uganda. This Council has five working groups; Tourism, Business Process Outsourcing (BPO), Mining/ Petroleum Exploration, Business Climate/ Finance and Agribusiness (Agro processing, Biotech and Forestry). The mandate of the Council is to advise the Government on steps that should be taken to

improve the investment climate and increase Foreign Direct Investment (FDI) inflows to Uganda. He was also a member of the ICT working committee of the 1st Presidential Investors Roundtable.

He is a competent manager and principle centred leader, self-motivated and effective public speaker, innovative thinker, performance and results oriented, trustworthy and incorruptible person, a distinguished researcher and academic. Throughout his life he has demonstrated competence as a leader driven by the need to serve, respect and strengthen those he serves. He believes in building and strengthening institutions.

Extended Resume

1. Name, Date, Place of Birth

Professor Venansius Baryamureeba; 18.05.1969; Kasharara Village, Kagongo Parish, Ibanda District, Uganda

2. Present Address

Department of Computer Science, Faculty of Computing and IT, Makerere University, P.O. Box, 7062, Kampala, Uganda; Tel +256 414 540628, Mob +256 712 874925, Fax +256 414 540620; barya@cit.mak.ac.ug, barya@ii.uib.no, barya@ict.co.ug, barya@acm.org, www.mak.ac.ug, www.cit.ac.ug, www.ict.co.ug

3. Educational Record

3.1. Key Qualifications

- | | |
|---|------|
| - Ph.D. in Computer Science, University of Bergen, Norway | 2000 |
| - Post Graduate Diploma in Analysing Linear Programming Models, University of Trondheim, Norway | 1997 |
| - M.Sc. in Computer Science, University of Bergen, Norway | 1996 |
| - M.Sc. (Mathematics)-Coursework, Makerere University, Uganda | 1995 |
| - B.Sc. (Mathematics), Makerere University, Uganda | 1994 |

3.2. Other Qualifications

He has postgraduate certificates/ diplomas in public relations, administration, business management, and mathematical modelling among others.

4. Fields of Expertise

He is a distinguished academic, researcher, leader and manager. He lectures courses in Computer Science, (Data Communication) Networks, Information Systems and Software Engineering at all levels including Doctoral level. He has an excellent research record where most of his publications have been in international journals. He has supervised several students at masters and PhD level in the areas of Computer Science, (Data Communication) Networks and Software Engineering. As a consultant, he has expertise in conducting needs assessment studies, formulating ICT Policies and Master plans, drafting corporate plans, designing strategic plans especially for academic institutions; project planning and Management on the side of projects. He has immense experience in setting up networks and information systems in an African setting. He is a senior consultant on higher education planning and management. He offers advisory services on ICT and Higher Education locally and internationally.

By virtue of his position as Dean Faculty of Computing and Information Technology Makerere University, he has accumulated experience in staff training and retention in an African University setting. Today the faculty has over 200 staff with at least a master's degree in computing/ICT and a student population of over 6000 on

degree programmes in Computing and ICT disciplines. He has expertise in building academic networks as evidenced from the several regional and national projects he coordinates/manages and also from his current position of President of the Uganda National Academy of Computing and Internet Technologies, a body that brings together all staff and students at higher institutions of learning in Uganda working in the area of ICT/ Computing.

5. Employment Record

- | | |
|--|------------------------|
| - Dean, Faculty of Computing and IT, Makerere University | Oct 2005 --to date |
| - Director, Institute of Computer Science, Makerere University, | Dec 2001-Oct 2005 |
| - Ag. Director, Institute of Computer Science, Makerere University, | April 2001-Nov 2001 |
| - Chairman and Managing Director, ICT Consults Ltd, Uganda | Nov 2001- to date |
| - Professor, Dept of Computer Science, Faculty of Computing and Information Technology, Makerere University, | 27/11/2006- to date |
| - Associate Professor, Dept of Computer Science, Faculty of Computing and Information Technology, Makerere University, | 28/08/2006- 27/11/2006 |
| - Senior Lecturer, Dept of Computer Science, Faculty of Computing and Information Technology, Makerere University, | Jan 2005- Aug 2006 |
| - Senior Lecturer, Institute of Computer Science Makerere University, | Nov 2001- Dec 2004 |
| - Lecturer, Institute of Computer Science Makerere University Kampala, | July 2001-Oct 2001 |
| - Lecturer, Department of Mathematics, Makerere University Kampala, | 1998 -Oct 2001 |
| - Research Fellow, Department of Informatics, University of Bergen, | 1995-2000 |
| - Teaching Assistant, Department of Informatics, University of Bergen, | 1997-2000 |
| - Assistant Lecturer, Institute of Teacher Education Kyambogo, (ITEK), | 1995-1996 |
| - Assistant Lecturer, Institute of Statistics and Applied Economics, Makerere University | 1995--1998 |
| - Teaching Assistant, Institute of Statistics and Applied Economics, Makerere University | 1994--1995 |

6. Key Milestones

Prof. Baryamureeba has been an achiever and record setter and below are some highlights:

- In 1996 Baryamureeba finished a two year M.Sc. in Computer Science in a record time of 8 months;
- In 2000 he graduated with a PhD and had the best PhD dissertation that year at the University of Bergen;
- In 2000 Baryamureeba discovered the Barya function;
- In 2000 at the age of 30 he was the youngest PhD holder at Makerere University;
- In 2000 he became the 1st Ugandan to obtain a PhD in Computer Science;
- In 2001 at the age of 31 he was appointed Director of the Institute of Computer Science and became the youngest Director in the History of Makerere University;
- In 2005 at the age of 36 he was appointed Dean of the Faculty of Computing and IT and became the youngest Dean in the history of Makerere University;
- In 2005, he spearheaded the construction of the largest computing building in Africa with 12,500 sq metres of space worth over US\$ 20 million--- and the building was officially opened by H.E. YK Museveni, President of the Republic of Uganda on 28th January 2009. This building (Block B) was funded from internally generated funds in the Faculty of Computing and IT. He had previously spearheaded the construction of the Faculty of Computing and IT Building (Block A) with 2500 sq metres of space, which was funded by the Royal Kingdom of Norway and was commissioned on 28th January 2004.
- In 2006 he was appointed a full Professor at the age of 37 making him the 1st Professor of Computer Science in Uganda and the youngest Professor in sub-Saharan Africa;
- In 2006 he raised from the rank of Associate Professor to Professor in a record time of less than three (3) months;

- In 2007 Prof. Baryamureeba received the 'Top ICT Educator/ Academic' Award in Africa for 2007;
- In 2008 Professor Baryamureeba was appointed Judge, African ICT Achievers Awards 2008;
- In November 2008 Professor Baryamureeba was included in the 2009 Edition of **Who's Who in the World**. Distributed globally, Marquis' Who's Who in the World is relied upon by business leaders, journalists, academics, and other professionals for its accuracy and currency of information. Additionally, it is found in the collections of many of the world's leading libraries and corporations. Who's Who in the World continues to be recognized internationally as the premier biographical data source of notable living individuals from every significant field of endeavour.
- In September 2008, Runner-up, Presidential Science Awards, Science and Technology Excellence Award in recognition of his innovative approach to institutional and human capacity development in computer science by the President of the Republic of Uganda.
- In November 2008, he was appointed an honorary member of the International Association of IT Governance Standards (ITGOVS), a member driven organization that provides a platform to both support and promote multi-disciplinary research on IT Governance standards.
- In April 2009, Prof. Baryamureeba was included in the "2000 outstanding intellectuals of the 21st century" by the *International Biographical Centre*.
- In May 2009, Prof. Baryamureeba was included in the "TOP 100 Professionals-2009 by the *International Biographical Centre* in recognition of his significant contribution in the area of ICT to engender influence on the local, national and international scene. As a bearer of Top 100 Professionals-2009, he has been recorded in perpetuity in the halls of the International Biographical centre.
- In July 2009, Prof. Baryamureeba won the International Educator of the Year 2009 Award from International Biographical Centre of Cambridge, England.
- In August 2009, Prof. Baryamureeba won the award of 'Most Influential ICT Personality in Uganda' from ICT Creatives Ltd (www.ictcreatives.com).
- On 20th October 2009, Prof. Baryamureeba, The Dean of the Faculty of Computing and IT at Makerere University won the 2009 TWAS-ROSSA Prize for Building Scientific Institutions for the African Region. The Academy of Sciences in the Developing World (TWAS) [www.twas.org] is an autonomous international organization, based in Trieste, Italy, that promotes scientific excellence for sustainable development in the South.
- On 1st November 2009, Prof. Baryamureeba was appointed Vice-Chancellor of Makerere University.

7. Research Interests

Computer Science, Information Systems, Optimization, (Object Oriented) Databases systems, programming Environments, Communication networks and Quality of Service, ICT for sustainable development.

8. Research Record

He has undertaken cutting edge research most of which has been published in international journals.

- He discovered the barya function, which has become one of the most used functions to solve engineering and economic problems that can be formulated as linear regression problems [BIT Vol. 41, No.5, pp. 847-855, 2001].
- He also proposed a new strategy for efficiently solving problems that can be formulated as linear programming problems or weighted least squares problems such engineering problems in VLSI layout optimisation [Numer. Linear Algebra and Appl. Vol 9, pp. 93-106, 2002] that has been adopted in many commercial and non-commercial solvers.
- Baryamureeba together with Ms. Florence Tushabe 'Proposed the Enhanced Digital Investigation Process Model' [Asian Journal of Information Technology 5(7): pp. 790-794, 2006] that has been adopted worldwide in forensic investigations. Computer crimes are on the rise and unfortunately less than two percent of the reported cases result in conviction. The process (methodology and approach)

one adopts in conducting a digital forensics investigation is immensely crucial to the outcome of such an investigation. Overlooking one step or interchanging any of the steps may lead to incomplete or inconclusive results hence wrong interpretations and conclusions. A computer crime culprit may walk Scot-free or an innocent suspect may suffer negative consequences (both monetary and otherwise) simply on account of a forensics investigation that was inadequate or improperly conducted. We proposed a model that addresses all these concerns.

- He has undertaken a lot of research and most of the research papers are also available at www.ii.uib.no/publikasjoner/textrap/index-eng.shtml, www.cit.ac.ug in addition to the international journals' websites and hardcopy prints. Below are some of the publications:
 1. Okori, W., Obua, J. and **Baryamureeba, V**, (2009). Famine Disaster Causes and Management Based on Local Community's Perception in Northern Uganda, *Research Journal of Social Sciences*, 4, 21 -32.
 2. Fredrick Kitoogo, **Venansius Baryamureeba** and Guy De Pauw. Towards Domain Independent Named Entity Recognition. *International Journal of Computing and ICT Research*, Vol.2, No.2, pp. 84-95, 2008.
 3. P. P. Wakabi-Waiswa and **V Baryamureeba**, *Extraction of Interesting Association Rules Using Genetic Algorithms*, *International Journal of Computing and ICT Research*, Vol.2, No.1, pp. 26-33, 2008.
 4. **Venansius Baryamureeba** and Trond Steihaug, *On the Properties of Preconditioners for Robust Linear Regression*, *International Journal of Computing and ICT Research*, Vol.1, No.2, pp. 50-66, 2007
 5. Fredrick Edward Kitoogo and **Venansius Baryamureeba**, *Meta-Knowledge as an engine in Classifier Combination*, *International Journal of Computing and ICT Research*, Vol.1, No.2, pp.74-86, 2007.
 6. **V Baryamureeba**, *ICT as an Engine for Uganda's Economic Growth: The Role of and Opportunities for Makerere University*, *International Journal of Computing and ICT Research*, Vol.1, No.1, pp. 47-57, 2007.
 7. T Wanyama and **V Baryamureeba**, *The Role of Academia in Fostering Private Sector Competitiveness in ICT Development*, *International Journal of Computing and ICT Research*, Vol.1, No.1, pp. 58-67, 2007.
 8. F.E. Kitoogo and **V Baryamureeba**, *A Methodology for Feature Selection in Named Entity Recognition*, *International Journal of Computing and ICT Research*, Vol.1, No.1, pp. 18-26, 2007.
 9. **Venansius Baryamureeba** and Florence Tushabe, *The Enhanced Digital Investigation Process Model*, *Asian Journal of Information Technology* 5(7): pp. 790-794, 2006.
 10. Florence Tushabe and **Venansius Baryamureeba**, *Cyber Crime in Uganda: Myth or Reality?* *Transactions on Engineering, Computing and Technology* V8, ISSN 1305-5313, 2005.
 11. **Venansius Baryamureeba** and John Ngubiri, *On Improvement of the Volcano Search and Optimization Strategy*, J. Dongarra, K. Madsen, and J. Wasniewski (Eds.), *Lecture Notes in Computer Science (LNCS)* LNCS 3732, pp.839-846, 2006.
 12. **Venansius Baryamureeba** and Trond Steihaug, *On the Convergence of an Inexact primal Dual Interior point Method for Linear Programming*, I. Lirkov, S. Margenov, and J. Wasniewski (Eds.), LNCS 3743, pp.629-637, 2006.
 13. Francis Lowu and **Venansius Baryamureeba**, *On Efficient Distribution of Data in Multicast Networks: QoS in Scalable Networks*, I. Lirkov, S. Margenov, and J. Wasniewski (Eds.), LNCS 3743, pp. 518—525, 2006.
 14. **Venansius Baryamureeba**, *Solution of Robust Linear Regression Problems by Krylov Subspace Methods*, I. Lirkov et al. (Eds.), LNCS 2907, pp. 67-75, 2004.
 15. **Venansius Baryamureeba**, *Solution of Large-Scale Weighted Least Squares Problems*, *Numerical Linear Algebra with Applications*, Vol. 9, pp. 93—106, 2002.
 16. **Venansius Baryamureeba**, *The impact of equal-weighting of both low-confidence and high-confidence observations on robust linear regression computation*, *BIT Numerical Mathematics*, Issue 41, No. 5, pp.847—855, 2001.
 17. **Venansius Baryamureeba**, *On Solving Large-Scale Weighted Least Squares Problems*, I. Lirkov, J. Wasniewski and P. Yalamov (Eds.), LNCS 1988, pp.59-67, 2001.

18. **Venansius Baryamureeba**, Trond Steihaug and Yin Zhang, *Application of a Class of Preconditioners to Large Scale Linear Programming Problems*, LNCS 1685, pp. 1044 -1048, 1999.
19. **Venansius Baryamureeba** and Trond Steihaug, *Computational Issues for a New Class of Preconditioners*, Michael Griebel, Svetozar Margenov, Plamen Yalamov (Eds.), *Large-Scale Scientific Computations of Engineering and Environmental Problems II*, In Series Notes on Numerical Fluid Mechanics, Vol. 73, pp. 128--135, Vieweg, 1999.
20. **Venansius Baryamureeba** and Trond Steihaug, *On a Class of Preconditioners for Interior Point Methods*, Nordic Section of the Mathematical Programming Society, *Opuscula* 49, ISSN 1400--5468, 1999.

Book Chapters:

21. **Venansius Baryamureeba**. ICT-enabled Services: A Critical Analysis of the Opportunities and Challenges in Uganda. *Special Topics in Computing and ICT Research Vol. 4*, Janet Aisbett, Greg Gibbon, Anthony J. Rodrigues, Joseph Kizza Migga, Ravi Nath, Gerald R Renardel (Eds.), *Strengthening the Role of ICT in Development*. ISBN 978-9970-02-871-2, pp. 215-235, 2008.
22. Peter Wakabi, **Venansius Baryamureeba** and K. Sarukesi. Mining Generalized Association Rules Using Genetic Algorithms. *Special Topics in Computing and ICT Research Vol. 4*, Janet Aisbett, Greg Gibbon, Anthony J. Rodrigues, Joseph Kizza Migga, Ravi Nath, Gerald R Renardel (Eds.), *Strengthening the Role of ICT in Development*. ISBN 978-9970-02-871-2, pp.59-69, 2008.
23. Florence Tushabe, Peter Jehopio, **Venansius Baryamureeba**, Paul Bagyenda, Cypriano Ogwang. The Status of Software Usability in Uganda. *Special Topics in Computing and ICT Research Vol. 4*; Janet Aisbett, Greg Gibbon, Anthony J. Rodrigues, Joseph Kizza Migga, Ravi Nath, Gerald R Renardel (Eds.), *Strengthening the Role of ICT in Development*. ISBN 978-9970-02-871-2, pp. 1-11, 2008.
24. Francis Xavier Lowu and **Venansius Baryamureeba**. Delay-Optimized Path in Peer-to-Peer Networks. *Special Topics in Computing and ICT Research* ISBN 978-9970-02-871-2, Vol. 4, pp. 312-320, 2008.
25. P. P. Wakabi-Waiswa and **V Baryamureeba**, *Extraction of Interesting Association Rules Using Genetic Algorithms*, *Special Topics in Computing and ICT Research Vol. 3*; Joseph Kizza Migga Janet, Aisbett Janet, Katherine Getao, Victor W Mbarika, Dilip Patel, Anthony J. Rodrigues (Eds.), *Strengthening the Role of ICT in Development*. ISBN 978-9970-02-730-9, pp. 101-110, 2007.
26. **Venansius Baryamureeba**, *On Solving Large-Scale Linear Systems Arising from Interior Point Methods for Linear Programming*, Joseph Kizza, Janet Aisbett, Andrew Vince, and Tom Wanyama (Eds.), *Special Topics in Computing and ICT Research: Advances in Systems Modelling and ICT Applications*, ISBN 13:978-9970-02-604-3; ISBN 10:9970-02-604-6, Vol. 2, pp. 50-64, 2006.
27. Jennifer S Angeyo, **Venansius Baryamureeba**, Peter Jehopio, *A Dynamic Framework for the Protection of Intellectual Property Rights in the Cyberspace*, D Williams and V Baryamureeba (Eds.), *Special Topics in Computing and ICT Research: Measuring Computing Research Excellence and Vitality*, ISBN 13:978-9970-02-592-3; ISBN 10:9970-02-592-9, Vol. 1, pp. 230-247, 2006.
28. Ddembe Williams and **Venansius Baryamureeba**, *An Investigation of Heads of Computing Departments in Higher Education Institutions*, D Williams and V Baryamureeba (Eds.), *Special Topics in Computing and ICT Research: Measuring Computing Research Excellence and Vitality*, ISBN 13:978-9970-02-592-3; ISBN 10:9970-02-592-9, Vol. 1, pp. 3-11, 2006.
29. **Venansius Baryamureeba** and Ddembe Williams, *The Doctoral Programme in Computing at Makerere University: Lessons Learned and Future Improvements*, D Williams and V Baryamureeba (Eds.), *Special Topics in Computing and ICT Research: Measuring Computing Research Excellence and Vitality*, ISBN 13:978-9970-02-592-3; ISBN 10:9970-02-592-9, Vol. 1, pp. 26-35, 2006.
30. **Venansius Baryamureeba** and Ddembe Williams, *Inter-departmental Staff Transfers in a Multidisciplinary Research Environment: Towards Transfer Criteria for Academic Staff at Universities in Developing Countries*, D Williams and V Baryamureeba (Eds.), *Special Topics in Computing and ICT Research: Measuring Computing Research Excellence and Vitality*, ISBN 13:978-9970-02-592-3; ISBN 10:9970-02-592-9, Vol. 1, pp. 36-43, 2006.

Conference Proceedings:

31. Fredrick Kitoogo and **Venansius Baryamureeba**, The use of Meta-knowledge for enhanced Classifier Combination. Annual Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT 2007) Fish River Sun, Sunshine Coast, South Africa, 30th September – 3rd October 2007.
32. J Muhirwe and **V Baryamureeba**, *Towards computational morphological analysis for Kinyarwanda*, To appear in the edited book for the 1st International Conference in Computer Science and Informatics, 5-7th February 2007, Nairobi, Kenya
33. P. P. Wakabi-Waiswa and **V Baryamureeba**, *An improved multi-objective algorithm for association rule mining*, To appear in the edited book for the 1st International Conference in Computer Science and Informatics, 5-7th February 2007, Nairobi, Kenya
34. F.E. Kitoogo and **V Baryamureeba**, On classifier combination for better named entity, To appear in the edited book for the 1st International Conference in Computer Science and Informatics, 5-7th February 2007, Nairobi, Kenya
35. **Venansius Baryamureeba** and Trond Steihaug, *Preconditioning for Iterative Methods in Robust Linear Regression*. Presented at the 16th IMACS WORLD CONGRESS 2000 on Scientific Computation, Applied Mathematics and Simulation in Lausanne, Switzerland August 21-25, 2000. Published in the Conference Proceedings.
36. **Venansius Baryamureeba**, *A New Function for Robust Linear Regression: An Iterative Approach*. Presented at the 16th IMACS WORLD CONGRESS 2000 on Scientific Computation, Applied Mathematics and Simulation in Lausanne, Switzerland August 21-25, 2000. Published in the Conference Proceedings.
37. **Venansius Baryamureeba**, *Solution of Robust Linear Regression Problems by Preconditioned Conjugate Gradient Type Methods*, Presented at "Sixth copper mountain conference on iterative methods, 3-7 APRIL 2000, University of Colorado, USA". Paper for Hard Copy Proceedings. Technical Report No. 187, Department of Informatics, University of Bergen, 5020 Bergen, Norway, 2000.

Reports:

38. **Venansius Baryamureeba**, *Preconditioners for Sequences of Weighted Linear Systems*, Technical Report No. 198, Department of Informatics, University of Bergen, 5020 Bergen, Norway, 2000
39. **Venansius Baryamureeba**, *Basis based low-rank correction preconditioners for sequences of weighted least squares problems*, Technical Report No. 205, ISSN 0333-3590, Department of Informatics, University of Bergen, 5020 Bergen, Norway, 2000.
40. **Venansius Baryamureeba** and Trond Steihaug, *Properties and Computational Issues of a Preconditioner for Interior Point Methods*, Technical Report No. 180, ISSN 0333-3590, Department of Informatics, University of Bergen, 5020 Bergen, Norway, 1999.

Dissertations:

41. **Venansius Baryamureeba**, *On Solving Large Sparse Linear Systems arising from Linear Programming and Linear Regression*. Ph.D. Thesis, Department of Informatics, University of Bergen, 5020 Norway. Copyright © 2000 Department of Informatics, University of Bergen, 5020 Norway
42. **Venansius Baryamureeba**, *Primal-Dual Interior-Point Method using an Iterative Solver for the Linear System*. M.Sc. Thesis, Department of Informatics, University of Bergen, 5020 Norway. Copyright © 1996 Department of Informatics, University of Bergen, 5020 Norway.

9. External Assessor

- Engaged by the National Council for Higher to assess academic programmes submitted for accreditation. To date I have assessed over 10 academic programmes.

10. External Programme Evaluation Committee in the East African Community.

- Chair of the External Programme Evaluation Committee on Computing and Informatics for the East African Community Universities, 2008-2009. The committee visited Universities in Kenya, Uganda and Tanzania and assessed the different elements that contribute to quality deliver of academic programmes. The findings were shared with the Universities.

11. External Examiner

- External Examiner, Mkwawa University College of Education, A Constituent College of the University of Dar es Salaam, 2007
- External Examiner, Department of Computer Science, Mbarara University of Science and Technology, 2003-todate
- External Examiner, Faculty of Science and Technology, Uganda Christian University Mukono, 2004 – to 2007
- External Examiner, Department of Computer Science, National University of Zimbabwe, 2006 -2008
- External Examiner, Kampala International University, School of Computer Studies, 2002-2005

12. Editorial Boards

- **Member, International Editorial Board of the African Journal of Information Systems; 2007-todate.** To provide periodic comments to the editorial Board on issues pertaining to quality of papers published; to hold senior board members regularly accountable in order to maintain the highest academic standards in running the journal.
- **Board Member and Founding Member of AuthorAID Demonstration Project (2007).** The Advisory Board consists of 5 members including one representative from Africa, Asia, Latin America, Croatia and North America. Prof. Baryamureeba represents Africa on the Advisory Board. Author AID hosted at the International Network for Availability of Scientific Publications (INASP) is focusing on addressing barriers to higher representation of developing world contributors in scientific and policy-relevant publications. AuthorAID aims at increasing the number and quality of articles by scientists from low-and-middle income through taking a developmental editing approach to supporting authors from low- and middle-income countries, helping them present their work in ways most likely to survive peer-review and result in publication. The research, commentaries, and editorials that have the potential to influence policy locally, regionally, and globally are targeted by AuthorAID.

13. Doctoral Examination Boards/ Doctoral Thesis Reading Committee

I have served as a member of the doctoral examination board/ doctoral thesis reading committee for the following PhD candidates:

- Dr. John Ngubiri, Techniques and Evaluation of Processor Co-allocation in Multi-cluster systems, Radboud University Nijmegen. The Doctoral defence took place on 15th September 2008.
- Dr. Josephine Nabukenya, Improving Quality of Organizational Policy Making using Collaborative Engineering, Radboud University Nijmegen. The Doctoral defence took place on 3rd March 2009.

- (c) Dr. Benjamin Kanagwa, Design, Discovery and Construction of Service Oriented Systems, Radboud University Nijmegen. The Doctoral defence took place on 21st April 2009.

14. Consultancy Record

He has a background in ICT Training; ICT Research; ICT Advisory Services; ICT Policy Research; ICT Strategic Planning and Management and has undertaken extensive consultancies in the same areas both locally and internationally. He is a Senior Consultant on Higher Education Planning and Management having been engaged in projects funded by the United Nations Economic Commission for Africa (UNECA), UNESCO, UNDP, NEPAD, World Bank and IDRC, among others. Under these projects he has been on assignments to countries like Ghana, Ethiopia, Kenya, Tanzania, South Africa, Rwanda, Botswana, Burundi, Cameroon, Morocco and Sudan.

Chairman and Managing Director of ICT Consults Ltd (www.ict.co.ug) since its incorporation in 2001; and founder member of ICT Consults. ICT Consults was started with the primary objective of providing former Institute of Computer Science staff with another avenue of supplementing their meagre salaries and also accord students especially graduate students an opportunity to gain skills on job through participation in consultancy projects. Under his leadership ICT Consults has tremendously grown and now has a net worth of over US\$ 1 million. It has been ranked internationally as one of the best ICT firms in Africa as evidenced in the several international awards received jointly with the Institute of Computer Science and later with Faculty of Computing and IT, Makerere University.

He was involved in an all Africa project on E-governance codenamed LOG-IN-AFRICA funded by IDRC that undertook research in ICTs in Local Governance.

Since 1996, he undertook several national and international consultancies that have earned Makerere University and himself a lot of recognition. For example:

- The Partnership for Higher Education in Africa was launched in 2000 by Carnegie Corporation of New York, the Ford Foundation, MacArthur Foundation, Rockefeller Foundations, The William and Flora Hewlett Foundation and the Andrew W. Mellon Foundation committed over \$200 Million to Higher Education in Africa. (<http://www.hewlett.org/AboutUs/News/africahighereducation.htm>). He worked as a Consultant on 'Emerging Educational Approaches: new programs and curricula being developed by Universities to meet the needs of employers in Africa and around the world.
- The other local consultancy was on developing a corporate plan and institutional structures for National Information Technology Authority-Uganda (NITA-U) funded by World Bank, where he worked as the Lead ICT Consultant. This authority coordinates and regulates all the Information Technology initiatives in Uganda.

A list of some of the local consultancies is available at www.ict.co.ug.

Associate Consultant with Ernst and Young (www.ey.com). Ernst & Young is a global leader in assurance, tax, transaction and advisory services. Worldwide, the over 135,000 employees of Ernst and Young are united by their shared values and an unwavering commitment to quality. They make a difference by helping the people, the clients and the wider communities achieve their potential. Ernst & Young is committed to maintaining the public's trust in professional services firms through providing quality services in accordance with its tagline "**Quality in Everything We Do**". Ernst & Young, with its extensive business knowledge and hands-on industry experience, can be relied upon to provide a broad array of value adding solutions to companies. The solutions enable companies to grow, improve financial performance and manage risk. In the African region Ernst and Young offers the following services which are grouped under four service lines; Assurance, Advisory, Tax services and Transaction Advisory Services (TAS).

15. Summary of Work Experience

- Ag. Director, Institute of Computer Science, Makerere University (April 2001-Nov 2001); Director, Institute of Computer Science, Makerere University (Dec 2001- 2005); Dean, Faculty of Computing and IT, Makerere University (2005–today). Being a Director and then Dean at a tender age in an institution where all Directors and Deans are usually over 40 years of age has been his most challenging and rewarding career. It has taken him four years to transform the Institute of Computer Science, which was a small unit with one academic programme, 28 students, seven members of academic staff and an annual budget of US\$15,000 into a Faculty of Computing and Information Technology with over 20 academic programmes, over 5,000 students undertaking degree programmes, 200 staff an annual budget of over US\$7 million as of September 2005. In the same period, the Institute and now faculty has been able to produce over 500 M.Sc. in Computer Science Degree holders and over 1200 B.Sc. in Computer Science holders among others. Today the Faculty of Computing and IT annual budget is over US\$10 million including development partners funds and graduates over 1,000 computing professionals annually. In a bid to train human resource for the region, the Faculty of Computing and IT is currently training over 50 PhD students locally and 40 PhD students abroad. This has been possible through collaboration grants and experts from Europe especially The Netherlands, UK and USA. Today the Faculty of Computing and IT is rated highly as a Computing and ICT centre of excellence in the whole of Sub-Saharan Africa. He has been behind all these great achievements.
- Member Makerere University Senate (July 2001—today), and member of the following Makerere University Senate Committees: Academic Programmes and Library Committee (2003—today), Senate Science (July 2001- March 2003), Graduate Studies Board (2003—today). These committees handle academic issues at the heart of Makerere University.
- Member Makerere University Council, representing Academic Staff (December 2006 to date). The Makerere University Council is the supreme policy organ of the University. He also served on the Council ICT Committee from 2002 to date. This committee advises the University Council on ICT policy and master plan, integration of ICT in teaching, learning, research and administration. Since December 2006 he is a member of the following Makerere University Council Committees: Finance, Planning and Development Committee; ICT Committee; Establishment and Administration Committee; and Statutory Committee.
- Member, Board of Commercial Units, Makerere University, 2006 to date. This Board oversees all the commercial units at Makerere University.
- Member, Busitema University Senate for a period of three (3) years with effect from 27th November 2007. He is a Government Appointee on the Senate. The Senate is the supreme organ of a University in charge of all academic matters.
- Member, Mbarara University of Science and Technology Senate for a period of three (3) years with effect from 12th June 2009. He is a Government Appointee on the Senate. The Senate is the supreme organ of a University in charge of all academic matters.
- Vice-Chairperson of NetTel@Africa Programme Academic Board (Jan 2007 to date). NetTel@Africa (www.nettelafrika.org) is a network for capacity building and knowledge exchange in ICT policy, regulation and applications. It is a comprehensive capacity-building strategy focused on improving the use of Information Communication Technologies (ICT) to achieve socio-economic development goals in Africa. NetTel@Africa is a global network of government officials, regulators, academics, researchers, service providers, consumers, and civil society. The overall goal of the NetTel@Africa is to make the provision of ICT more efficient and ubiquitous to the citizens of targeted countries. Achievement of the goal will require improved policy and regulatory reform and increased private sector investment in ICT (telecommunications sector). To this end, NetTel@Africa seeks to strengthen the capabilities of policy making and regulatory bodies, private sector operators, consumer advocacy groups and academic institutions that can assist with sustained capacity building in the ICT sector. NetTel@Africa has four

synergistic components: International Peer-to-Peer Programme; Training and Degree Programmes in ICT Policy and Regulation; Research Programme to complement the degree programmes; Community-to-community Programme on ICT for development. On diploma and degree programmes, the network currently runs a Postgraduate Diploma in ICT Policy and Regulation and Master of ICT Policy and Regulation among the several participating Universities across the African Continent.

- Director, the Research and Education Network for Uganda (RENU), April 2009 - to date. RENU is a company limited by guarantee whose main objectives include:
 - (i) To promote and facilitate research and education networking among Ugandan Universities and Research Organization.
 - (ii) To create stronger negotiating positions for participating institutions in dealing with Government and regulators on issues related to policy and regulation vis-à-vis research and educational organizations
 - (iii) To explore ways of overcoming the high cost of information systems through pooling resource and sharing, where feasible, costs for common software, and promoting collaboration in areas that may include but are not limited to E-learning systems to help deliver common online courses.

- Member, The State of the Nation Platform. The Secretariat for this platform is Advocates Coalition for Development and Environment (ACODE). ACODE is an independent public policy research and advocacy think tank registered in Uganda with research and advocacy operations covering the Eastern and Southern Africa sub-region. The State of the Nation Platform in Uganda is a specific policy forum aimed at promoting an upward and downward policy conversation on contemporary public policy and governance issues in Uganda. The State of the Nation Platform brings together individual leaders and professionals in the public sector, private sector, civil society, the media and other interest groups into a policy discourse.
- Member of the National Board of Advisors for the Pan African Movement since June 2009 and will serve for a renewable period of 5 years.
- Member, Uganda Doing Business Reform Task Force, August 2009 to date. The Doing Business Report published annually by the World Bank investigates the regulations that enhance business activity and those that constraint based on key indicators across 181 countries. The indicators relating to 10 stages of a business's life are: starting a business, dealing with licenses, employing workers, registering property, getting credit, protecting investors, paying taxes, trading across borders, enforcing contracts and closing a business. The Government of Uganda requested for assistance from the World Bank with formulating strategies to improve Uganda's Investment Climate based on the above indicators. A Reform Memorandum was produced which outlines short and medium term recommendations to improve Uganda's environment for doing business. A Uganda Doing Business Reform Task Force has been constituted in the Ministry of Finance, Planning and Economic Development; of which I am member, to support the implementation of these reforms.

- Member of the Presidential Investors Roundtable- Business Process Outsourcing working group, 2007 to date. The President of Uganda launched the 2nd Presidential Investors Roundtable; a top-level Business Advisory Council on 21st June 2007 at Imperial Resort Beach, Entebbe, Uganda. This Council has five working groups; Tourism, Business Process Outsourcing (BPO), Mining/ Petroleum Exploration, Business Climate/ Finance and Agribusiness (Agro processing, Biotech and Forestry). The mandate of the Council is to advise the Government on steps that should be taken to improve the investment climate and increase Foreign Direct Investment (FDI) inflows to Uganda.
- Member, 2004-2006, The Presidential Investors Roundtable, a top-level Business Advisory Council, launched on 30th September 2004 by the President of the Republic of Uganda at Speke Resort Munyonyo, Uganda. This Council had four working groups: Agribusiness, ICT/Education, Infrastructure and Regulatory Environment. The mandate of the Council was to advise the Government on the steps that should be taken to improve the investment climate and increase Foreign Direct Investment (FDI) inflows to Uganda.

- Member Nuffic Project Steering Committee (Jan 2007 to date). The Faculty of Development Studies at Mbarara University of Science Technology won a grant from Nuffic for a project entitled 'Strengthening the Capacity of the Faculty of Development Studies. The project aims at enabling the Faculty of Development Studies to effectively and efficiently teach relevant and tailor made courses in Development Studies, do active research and engage in outreach programs to promote grass root development. The project also aims at establishing a Centre of Excellence in Development Studies training and Research at Mbarara University to continuously address the human resource gaps for sustainable development practitioners to work in the largely rural areas of Uganda to address poverty issues and promote socio-economic development. The project commenced in January 2007 and will last four years.
- Chairman Board of Directors, 2008- to date The **THINK BIG AFRICA FOUNDATION**, <http://www.thinkbigafricafoundation.org/>, whose primary focus is to put up the biggest vocational (Technical skills) learning center in Uganda which will serve as a catalyst for growth in the areas of workforce development, self-empowerment and economic growth; and will empower citizens to achieve an enhanced individual quality of life. This will mainly focus on the young generation and accord them the opportunity to realize their greatest potential.
- Member, Organising Committee for the Grand Alumni of Makerere University Re-Union. Makerere University Convocation is organising a Grand Re-Union on 28th November 2009, and H.E. Benjamin Mkapa, former President of the Republic of Tanzania will be the Chief Guest.
- Member, Makerere University Organizing Committee for Stakeholders' Consultative Conference. The conference took place from 22nd -23rd January 2009. The organizing committee was responsible for the general organization of the consultative conference; drafting terms of reference for the thematic areas sub-committee; receiving reports and presentations and synchronizing the presentations for the consultative conference; identifying the stakeholders to be invited for the consultative meeting; mobilizing funds to support the conference among others.
- Member of the Infrastructure Committee of the Commission for Africa Forum (August 2005- 2007). This committee was charged with developing policies and plans for the setting up of common infrastructure within the New Economic partnership for Africa's Development (NEPAD) member states. His main contribution was in the area of regional ICT policies and plans necessary for the integration of ICT in governance, commerce and education.
- Trust and Honorary member, Uganda Young Entrepreneurs Association (August 2005-todate). This is a support association for young entrepreneurs. It offers peer mentorship, networking, speaker events and socials.
- President, Uganda National Academy for Computing and Internet Technologies (UNACIT) (2004—todate). This is an association that brings together all the computing/ ICT departments/ institutes/ faculties in all the universities (public and private) in Uganda to network in order to optimally share resources, address common challenges and ensure quality in the computing profession.
- National Coordinator and Project Leader, Strengthening ICT Training and Research Capacity in the Public Universities in Uganda, a 4- year project funded by NUFFIC to the tune of 5.7 million euros (Jan 2007 – to date). The overall objective of the Project is to strengthen the Capacity of Makerere University Faculty of Computing and IT, the Institute of Computer Science at Mbarara University of Science and Technology, the Departments of Computer Science at Kyambogo and Gulu Universities to develop, implement and manage relevant educational and research programmes for poverty alleviation, rural and economic development. He wrote the proposal in consultation with the four public Universities.
- National Coordinator and Project Leader, Building a Sustainable ICT Training Capacity in the public Universities in Uganda, a 4- year project funded by NUFFIC to the tune of 3.4 million euros (July 2004 – up June 1008). This project aimed at addressing ICT human resource capacity in the four public universities of Makerere, Mbarara, Kyambogo and Gulu. He wrote the project proposal and he was the key person behind its successful implementation. The Netherlands Government in survey voted this project as the best ICT project in Africa funded by The Netherlands Government. For details visit: <http://www.edusite.nl/edusite/specials/14940>
- Executive President, CONNECT Uganda Foundation, www.connectuganda.org (May 2003- to date). CONNECT Uganda, a non profit making organization, was incorporated in Uganda in May 2003 with the

overall objective of stimulating new firms and creating jobs in the knowledge-intensive sector, by linking entrepreneurs and innovators with research and development, service providers, venture capitalists and partners. CONNECT Uganda enables the conversion of excellent academic research into finished products that are consumed locally and internationally. Academic institutions, low-income organisations and Non-profit making organisations may utilize these products freely. This organization is mainly using students in the Faculty of Computing and Information Technology to support the faculty staff to meet the above objectives and of recent it led to the establishment of a Department of Software Development and Innovations within Makerere University Faculty of Computing and Information Technology that is now serving as the main software incubation centre in Uganda.

- Coordinator, African Learning Network, www.connectuganda.org (May 2003- 2007). Enabling Innovation in the information Society through Research and Development. Overall, this programme was geared towards enabling African universities and research institutions play a greater role in the information society and become one of its key pillars by offering innovative solutions and applications. In addition, this activity represented the 'Knowledge Sharing and Building Intellectual Capital' goal of the Africa Learning Network, which aimed at promoting the creation and presentation of content and knowledge by learners and teachers and to empower them as global communicators.
- Coordinator/ Curriculum Lead, Cisco Certified Network Professional (CCNP) Regional Academy (March 2003- to date). Uganda is the First Least Developed Country with Cisco Certified Network Professional Curriculum. African Ambassadors, as well as representatives from United Nations Development Programme, the US Agency for International Development, the International Telecommunication Union, United Nations Volunteers, and Cisco Systems, convened in Washington, D.C., on March 12, 2003 to announce the establishment of the first Cisco Certified Network Professional (CCNP) degree programme in Uganda. This curriculum is part of the Cisco Networking Academy Program and is the first CCNP programme in a least developed country (LDC). This announcement marked another milestone for the Cisco Networking Academy LDC initiative. In July 2000, Cisco Systems formed a strategic partnership with international development organisations to help train students in the world's least developed countries for jobs in the Internet economy. This initiative has created opportunities for skills development in participating countries, empowering them to accelerate progress, attain sustainable development, and fully integrate into the world economy. The LDC initiative provides a compelling example of how business, international organisations or donors and governments can work together to meet the urgent needs of least developed countries and promote digital opportunity. He has been behind this programme since its inception. For details see: http://www.cisco.com/web/learning/netacad/digital_divide/ldc/NewsEvents.html#1
- Member, Task Force on E-Transactions and Computer Misuse, Uganda Law Reform Commission (Oct 2002—Nov 2003). This task force was charged with the drafting of the bills on e-transactions, and computer misuse/crime.
- Member, NORAD Steering Committee, Makerere University (July 2001- 2007). This committee oversaw the NORAD Institutional Development Program, determined possible areas for NORAD funding and vetted proposals to be funded.
- Introducing International Professional ICT Training Programs in Uganda. He spearheaded the establishment of international certification programs like those under Cisco Systems Inc., Microsoft Inc., and Oracle Inc. These certifications allow the holder to work any where in the world, i.e. there are internationally recognized qualifications.
- Chairperson, Makerere University End User Training Project (EUTP) (July 2001- Nov 2005). Implementing the Makerere University ICT Policy and Master Plan (2001 to date); Chapter 4 of the Makerere University ICT Policy is on end user training in ICT Skills. Makerere University Senate and Council mandated the former Institute of Computer Science (ICS) and now Faculty of Computing and Information Technology to conduct all computer related training in the university. Under his leadership Makerere University planned and conducted successfully training for over 60% of staff and students of Makerere University in ICT skills so that they could fully exploit the power of ICT in research, teaching, learning and administration. He is currently spearheading end user training at Makerere University for the remaining staff that still lack ICT skills.

- Chairperson, Institute of Computer Science Board (July 2001—2005); Chairperson of the Faculty of Computing and Information Technology Board (2005—to date). The handles all the academic matters at the faculty.
- Coordinator, Makerere University E-learning Project (July 2001- Dec 2004). When Makerere University was faced with the challenge of big numbers of students, the Institute of Computer Science, introduced e-learning at Makerere University under the project 'Striving for e-learning at Makerere University' that was funded by Nuffic and its main objective was to develop capacity to integrate computers in the University's core function of teaching and learning. This was achieved first by developing a solid knowledge base in the area of educational uses of computers within Makerere University, through the development of knowledge and expertise in this field within the university academic staff. In the broad sense, this project enabled Makerere University to offer relevant quality education to its increasing student population and outreach programs thus realising its vision as a centre of academic excellence providing world class teaching, research and service relevant to sustainable development needs of society. The Faculty of Computing and Information Technology is one of those faculties that fully embraced e-learning and all its undergraduate courses and some postgraduate courses are fully available as e-learning courses. In partnership with the Netherlands Fellowship Program (NFP) and the University of Groningen the Faculty of Computing and IT conducted a refresher course in e-learning for over 250 members of academic staff at Makerere University in the month of June/July 2006. The Faculty of Computing and IT is currently conducting refresher courses for all Makerere University staff in e-learning, ICT, and other related areas for free during semester breaks in order to enhance their potential in using ICT as a tool in teaching, research and administration.
- Convener, Internet bandwidth Task Force, May 2007-June 2007, convened a taskforce to review the bandwidth at Makerere University and submitted a report with recommendations to the University management.
- Member, Technical Adhoc Council Committee on the Vice-Chancellor and Deputy Vice-Chancellors' Search; April 2008- July 2008. The terms of reference for the committee were to seek the views of stakeholders; to compare Makerere University's search process with best practices in other universities; to consider the previous process used for the search of the Vice Chancellor and Deputy Vice Chancellors and to consider improvement of the search process. The committee submitted its report to Council in July 2008 and the report was later adopted by Makerere University Council.
- Member, Adhoc Committee on Salary Enhance. This committee was to study and recommend ways of how salaries of staff could be enhanced by proposing alternative sources of income. The report is read and yet to be tabled before Council for consideration.

16. Search Committees

- Member, Search Committee for Vice-Chancellor and Deputy Vice-Chancellors of Busitema University, November 2008 –June 2009. The mandate of the committee was to search for suitable candidates for the above positions and assess the candidates and recommend the suitable candidates to Senate, from which three (3) names for each position would be submitted to the University from which one candidate for each position would be recommended to the Chancellor for Appointment. The committee has already made recommendations to the University Senate for the Vice-Chancellor position and Prof. Mary J Okwakol was appointed Vice-Chancellor of Busitema University in 2009.
- Member, Search Committee for the Chancellor of Makerere University, June- Nov 2007. Section 30 of the Universities and Other Tertiary Institutions Act, 2001 as amended provides that there shall be a Chancellor for each Public University who shall be appointed by the President on the recommendation of The University Council. The University Council set up a search committee which commenced its work in June 2007 and finalized it in September 2007. The Council adopted the search committee's recommendations and recommended Prof. Mondo Kagonyera who was later appointed Chancellor of Makerere University by the President of the Republic of Uganda.

- Judge, African ICT Achievers Awards 2008. A truly Africa wide ICT awards programme, endorsed by NEPAD, the African ICT Achievers Programme, has at its core a central theme, one that touches the lives of all Africans, namely to 'Make the African Century a Reality'. Since its inception in 1998, the African ICT Achievers Programme has built a strong foundation of recognition and reward for those ICT individuals and organizations that have made a difference to the ICT industry in Africa. They must have proven achievement in business excellence, innovation, entrepreneurship or through having touched the lives of others less fortunate. They must have proven that their interaction continues to leverage ICTs to make a difference across our continent. He served as a Judge for the 2008 Adjudication panel for the African ICT Achievers Awards Programme.

17. Visitation Committees

- Member, Visitation Committee to the Regional Institute of Business and Management (RIBM), Kenya 2006. The terms of reference were to assess and satisfy itself on the library facilities, adequacy of qualified staff, lecture rooms, laboratories and other facilities for conducting academic programmes. To assess and validate the likely areas for which affiliation would occur; to submit a report to Senate. The committee recommended no affiliation.
- Chairperson of the Visitation Committee that visited Busitema University on 13 and 14th February 2007 and came up with a report that formed a basis of the recommendations to the Minister of Education and Sports, the Parliament of Uganda and the President of Uganda. Busitema University was later set up by an Act of Parliament that was assented to by the President of the Republic of Uganda.
- **Member**, Visitation Committee to Nsamizi Institute for Social Development, 2007. Terms of reference were; to make a visitation to the institute and satisfy itself on the library facilities, the adequacy of qualified staff, lecture rooms, laboratories and other related facilities for teaching undergraduate degree programmes and submit a report to Senate. On the recommendations of the Committee Nsamizi Institute for Social Development was affiliated to Makerere University.
- **Member**, Verification committee for the International Health Sciences University, 2008. The committee was asked to verify the facilities of the proposed Health Sciences University and give a comprehensive report, which formed part of the information and data needed that led to the grant of a provisional licence.

18. National and International Awards/ Recognitions

Makerere University Faculty of Computing and Information Technology [CIT] (formerly Makerere University Institute of Computer Science (MUICS)) and its affiliated company ICT Consults Ltd have demonstrated an excellent sustainable model for conducting teaching, research and consultancy services. This has been evidenced by the numerous joint awards in recognition of the successes:

- (i) Makerere University Faculty of Computing and IT wins the International Quality Crown Award 2009 in Diamond Category from Business Initiative Directions (BID) [www.bid-crown.com] for corporate achievement in recognition of leadership, quality, innovation, excellence, technology, customer service and prestige. This was communicated in statement dated July 31, 2009 from Jose E. Prieto, President of BID. The award receiving ceremony will take place on 30th November 2009 in the spectacular Ballroom of the Guoman Tower, London, UK. Prof. Baryamureeba is the Dean of Makerere University Faculty of Computing and IT.
- (ii) In August 2009, Prof. Baryamureeba won the award of 'Most Influential ICT Personality in Uganda' from ICT Creatives Ltd (www.ictcreatives.com). This was communicated by the Managing Director of ICT Creatives, Joyce Kyeyune Tonda, in a statement dated 23rd August 2009 and the award ceremony was on 28th August 2009 at Serena Hotel Kampala, Uganda.
- (iii) Baryamureeba won the 2009 TWAS Prize on Building Scientific Institutions in Africa. The Academy of Sciences in the Developing World (TWAS) [www.twas.org] is an autonomous international

organization, based in Trieste, Italy, that promotes scientific excellence for sustainable development in the South. Originally named "Third World Academy of Sciences", it was founded in 1983 by a distinguished group of scientists from the South under the leadership of the late Nobel laureate Abdus Salam of Pakistan. The Academy's strength resides in the quality and diversity of its membership – internationally renowned scientists elected by their peers. TWAS, the academy of sciences for the developing world, will hold its 11th General Conference and 20th General Meeting in Durban, South Africa, on 20-23 October 2009. The conference is being hosted by the [Academy of Science and Technology of South Africa](#) and supported by South Africa's [Department of Science and Technology](#). Professor Baryamureeba, The Dean of the Faculty of Computing and IT at Makerere University who is the 2009 TWAS-ROSSA Prize for Building Scientific Institutions for the African Region will receive the prize during the opening ceremony of the 20th TWAS General Assembly in Durban South Africa and later on Thursday 22nd October from 09.15 am to 10.30am give a speech on building scientific institutions in the developing world. A statement dated 19th August 2009 from the Executive Director of the African Academy of Sciences states that his excellent track record was taken into account in the selection process before bestowing on him the honour.

- (iv) Prof. Baryamureeba won the International Educator of the Year 2009 from International Biographical Centre of Cambridge, England. In a press release dated 31st July 2009, Nicholas Law, the Director General of the International Biographical Centre of Cambridge stated that "this prestigious award is only given to a few individuals whose achievements and leadership stand out in the international teaching community as decreed by the Research and Advisory Board of the International Biographical Centre.
- (v) In May 2009, Prof. Baryamureeba was included in the "TOP 100 Professionals-2009 by *the International Biographical Centre* in recognition of his significant contribution in the area of ICT to engender influence on the local, national and international scene. As a bearer of Top 100 Professionals-2009, he has been recorded in perpetuity in the halls of the International Biographical centre.
- (vi) On 27th February 2009, Prof. V Baryamureeba was recognised by Makerere University Academic Staff Association (MUASA) for his distinguished service to MUASA as its representative to the Makerere University Council for the period February 2007 to Feb 2009.
- (vii) In January 2009, Prof. Baryamureeba was considered for inclusion in the "2000 Outstanding Intellectuals of the 21st Century" by *the International Biographical Centre*, which is scheduled for publication in early 2010. 2000 Outstanding Intellectuals of the 21st Century Publication is made available to libraries, research institutes, and academics worldwide.
- (viii) Makerere University, Faculty of Computing and IT was awarded the "2008 HP Technology for Teaching Higher Education Grant" in appreciation for its commitment for student success and for seeking innovative ways to transform teaching and learning through the effective use of technology. Prof. Baryamureeba is the Dean of the Faculty of Computing and IT (CIT).
- (ix) In November 2008, he was appointed an honorary member of the International Association of IT Governance Standards (ITGOVS), a member driven organization that provides a platform to both support and promote multi-disciplinary research on IT Governance standards. ITGOVS believe in the endorsement and effective use of Information Technology through establishing an IT governance framework that balances the interests of all parties and increases the global competitiveness of organizations by being a one-stop information outlet for the extremely diverse community of standards researchers.
Honorary Membership to ITGOVS is by invitation only and is extended to the top professionals in this area, both from the corporate world as well as the academic world. The selection was based on Prof. Baryamureeba' commitment to higher education and his outstanding job in his capacity as Dean Faculty of Computing and Information Technology, Makerere University.

- (x) **Presidential Science Awards, Science and Technology Excellence Award.** In September 2008, Runner-up, Presidential Science Awards, Science and Technology Excellence Award in recognition of his innovative approach to institutional and human capacity development in computer science by the President of the Republic of Uganda.
- (xi) **ICT Consults Ltd received 10th Platinum Technology Award for Quality and Best Trade Name, July 2008.** This was in recognition of firms from all over the world, which have distinguished themselves in the field of quality, technology and excellence. The Quality Summit took place in Rome, Italy at Hotel Crowne Plaza-Rome, on 6th, 7th and 8th of July 2008. The award is from Association Otherways Management Consulting, Paris-France. Prof. Baryamureeba is Chairman and Managing Director of ICT Consults Ltd.
- (xii) **CIT Cisco Academy received the Regional Academy Excellence Award for East Africa, 2008** in recognition of High student enrolment; excellent support to local academies; focus on student impact initiatives; high female enrolment; and expanded academy curriculum.
- (xiii) **CIT Cisco Academy received best Regional Academy of the year 2007 award for Europe, Africa, Middle East and Asia; Istanbul, Turkey 2007.** Among the criteria considered in the selection process for the Award were outstanding performance, highest growth and enrolment plus outstanding student support initiatives.
- (xiv) **CIT Cisco Networking Academy received the Regional Academy Excellence Award, Nairobi 2007** in recognition of its consistent maintenance of high student enrolment, consistent high percentage of female students (more than 30%), high number of CCNA graduates (over 2,700), expanded Academy Program Curriculum and Excellent Communication.
- (xv) **CIT also received the International Quality Crown Award 2007** in recognition of its commitment to Quality, Leadership, Technology and Innovation.

- (xvi) **Prof. Baryamureeba received the ‘Top ICT Educator/ Academic’ Award in Africa for 2007**

Continuing with the theme, “Making the African Century a Reality”, the 9th Annual African ICT Achievers Awards for 2007 was jointly organized by ForgeAhead and the South African Department of Communications, South Africa. The Gala Event took place on 17th November 2007 at the Sandton Convention Centre, Johannesburg, South Africa, where the winners of the awards were announced in true African style. The awards were preceded by a gruelling judging process as a result of the high calibre of the entries received. Says Jane Mosebi, MD of ForgeAhead: “The competition was really tough this year because of the myriad of innovative and substantial entries we received from across the entire continent. These individuals and organisations are doing such great work to embrace ICTs and make this a truly ‘African Century’. Feedback from the judges was that they were inspired by the innovation, even at a formative level of most of the entries. The African ICT Achievers Programme has built a strong foundation of recognition and reward for those ICT individuals and organizations that have made a difference to the ICT industry in Africa. ICT Achievers have proven achievement in business excellence, innovation, entrepreneurship or through having touched the lives of others less fortunate. They have also proven that their interaction continues to leverage ICTs to make a difference across our continent.

- (xvii) **IBM Honours Prof. Venansius Baryamureeba**

A statement from IBM dated 4th December 2007 in New York states that IBM has made a gift in honour of Prof. Baryamureeba to the United Nations (UN) Foundation in support of **Nothing but Nets**, a grassroots campaign to save lives by preventing malaria. The statement further adds that through Nothing but Nets, the UN Foundation and its partners work with the Measles Initiative –one of the most successful vaccination efforts undertaken—to purchase bed nets and distribute them in countries and communities in greatest need.

(xviii) The International Star Award for Quality in the Diamond Category.

On 3rd April 2006 at a half past six in the evening, in the Convention Hall of the Hotel Concorde La Fayette in Paris, France, the Faculty of Computing and Information Technology was awarded “The International Star Award for Quality in the Diamond category” (<http://www.bid-star.com/>). The award was in recognition of Excellence in Leadership and Business Management; Quality and Excellence; and Technological Innovations and Expansion.

(xix) Professional of the Year 2005 – British Council Award.

This award was mainly for achievers, mentors and inspirational managers who have contributed immensely to the management of their organizations as well as International communities. He was recognized for his efforts in transforming the former Institute of Computer Science into a world class Faculty of Computing and IT at Makerere University and for efforts in effectively managing national projects such as The project on ‘Building a Sustainable ICT Training Capacity in four (4) Public Universities in Uganda’ by providing the services of mentorship, result oriented leadership, project coordination and management in an efficient and harmonious manner to the satisfaction of all parties involved. He was also recognized for managing international projects such as the Cisco Networking Academy, which is now a success story in Africa.

(xx) The 2005 Presidential Science Award Cycle

The Uganda National Council for Science and Technology organized awards for professionals and institutions that have excelled in undertaking cutting edge research, applying research to the benefit of mankind and using ICT as tool to achieve the millennium development goals. He was recognized for his efforts in empowering the communities (educational and non educational communities) with ICT skills so as to improve the quality of life through creation of human resource and socio-economic development. He was also recognized for his efforts in spearheading ICT training, research and consultancy services in sub-Saharan Africa.

(xxi) International Arch of Europe Award for Quality and Technology in the Diamond Category.

Makerere University Institute of Computer Science (MUICS) and ICT Consults Ltd were selected by BID and JBAN (www.bid-euro.com) to receive the International Arch of Europe Award for Quality and Technology in the Diamond category on the 28th of February 2005. In his capacity as the Director of MUICS and Chairman/ Managing Director of ICT Consults Ltd together with Ms. Jennifer Angeyo the Legal Officer for ICT Consults Ltd attended the awards ceremony. The awards presentation culminated the 31st International Arch of Europe Convention which was held in the Conventional Hall of Hotel Intercontinental Frankfurt, Germany. They were given a place of honour at the awards ceremony in recognition of the award in Diamond Category.

(xxii) The ICT Development Award.

At the Uganda Communications Commission Symposium and Awards Ceremony which was held on 15th July 2004 to mark five years of operation, reviewing successes and failures and mapping the way forward, Makerere University received an award in the ICT Development category based on two separate citations:

- (a) ICT Capacity building through the promotion and growth of the Institute of Computer Science that is creating the critical human resource capacity to address the challenges of the digital divide;
- (b) Exemplary and pioneering performance in organisation wide integration of ICT services and systems in organisational functions and processes, and implementing the largest private network in Uganda.

Dr F.F. Tusubira, the Director for the Directorate for ICT Support (DICTS) represented Makerere University at the occasion.

(xxiii) The ICT Quality Summit International Award

Makerere University Institute of Computer Science (MUICS) and ICT Consults Ltd (which is a private ICT Company comprising of highly qualified consultants from MUICS) were selected to receive The Quality Summit International Award for Excellence and Business Prestige (www.bid-qualitysummit.com) in the Platinum Category by the Business Initiative Directions (BID) and JBAN. The award was presented in New York, USA on 21st June 2004 in the convention Hall of New York Marriott Marquis Hotel (www.nymarriottmarquis.com), one of the most modern and spectacular hotels in New York. In his capacity as the Director MUICS, and Chairman and Managing Director of ICT Consults Ltd and Ms. Josephine Nabukenya travelled to New York to receive the joint award on the 21st June 2004 on behalf of MUICS and ICT Consults. They were given a place of honour at the ceremony in recognition of the award in the platinum category.

(xxiv) The 2003-Century International Quality Era Award.

At the May 2003 Century International Quality Era Award Ceremony that was held in Geneva, MUICS and ICT Consults Ltd received a joint award in Gold Category from Business Initiative Directions (BID) in regard to visionary leadership, commitment to quality, innovations, excellence, technology transfer, customer service and prestige. This made MUICS / ICT Consults Ltd. the first organization / company in East Africa to receive such an award.

(xxv) Cisco Networking Academy International Awards.

MUICS Cisco Networking Academy received two International Awards at the Cisco Africa Forum that was held in Dakar, Senegal 3-5 December 2003. The two awards were in the category of The Highest Academy Student Enrolment and an Outstanding Job Placement Program.

An updated list of awards is at: <http://cit.mak.ac.ug/details.about.php?item=3>

19. Curriculum Development

He spearheaded the development and implementation of the curricula for the following programmes:

- PhD programmes: PhD in Computer Science, PhD in Software Engineering, PhD in Information Systems and PhD in Information Technology;
- Masters Programmes: M.Sc. in Computer Science, M.Sc. in Data Communications and Software Engineering, M.Sc. in Information Systems and Master of Information Technology;
- Postgraduate Diploma Programmes: Post Graduate Diploma (PGD) in Computer Science, PGD in Data Communications and Software Engineering, PGD in Information Systems and PGD in Information Technology;
- Under Graduate Degrees: B.Sc. in Computer Science, Bachelor of Information Technology, Bachelor of Information Systems; B.Sc. in Software Engineering; B.Sc. in Computer Engineering (proposed and submitted to Academic programmes and Library Committee).
- Undergraduate Diploma: Diploma in Computer Science and Information Technology.

In addition he has taken lead in the revision, design and implementation of the computing curricula at Mbarara University of Science and Technology, Kyambogo University, Gulu University and Busitema University.

Since 2007 on request by the National Council for Higher Education (NCHE) has assessed several programmes in computing discipline in view of the following: contents, organization of the programme, pedagogy to be used; expected outcomes and literature proposed for the courses. On the basis of the above, he has recommended several computing programmes for accreditation by the NCHE.

20. Graduate Students Supervised to Completion

He has supervised several masters' students and postgraduate diploma students to completion.

He is currently supervising several graduate students both at Masters and PhD level. He has also supervised at least 5 students to completion at Master's level from the Institute of Statistics and Applied Economics, Makerere University in the area of Statistical Computing. Below are some of those he has supervised/ still supervising:

Masters students

S/No	REG NO.	NAME	TOPIC	STATUS
1	2001/HD18/1746U	Acuc Emmanuel	On Elliptic Curve Cryptography	Graduated 2004
2	2001/HD18/1764U	Mayanja Richard	On Building a flexible selection system	Graduated 2004
3	02/HD18/1825/U	Tushabe Florence B	Computer Forensics for Cyberspace crimes	Graduated 2005
4	02/HD18/1924/U	Ariko Okwakol Samson	On Internet Technologies Specification Model	Graduated 2005
5	02/HD18/420/U	Mwebaze Johnson	On Bandwidth Management	Graduated 2005
6	02/HD18/423/U	Ngubiri John	On Multi-Query Optimization in Relational Databases	Graduated 2005
7	02/HD18/436/U	Nkuyahaga Aggrey	A Case Reasoning Framework for an intelligent Help Desk System: Implementing and Maintenance	Graduated 2005
8	02/HD18/214/U	Kakooza Fred Bernard	Adopting the Makerere University Network for IP Video Conferencing	Graduated 2006
9	02/HD18/149/U	Torach Julius Peter	On Public Key Infrastructure Implementation	Graduated 2006
10	2003/HD18/1381/U	Ogwanga Cypriano	The Impact on Usability of User's Innovation in software Development Projects	Graduated 2006
11	2003/hd18/588	Francis Xavior	On Efficient Distribution of data in Multicast networks: QOS IN Scalable Networks	Graduated 2006
12	02/PGD18/258	Agoa Topista Amuge	Floppy Based Linux Operating System for Computers with minimal Resources	Graduated 2006
13	2001/HD18/1763/U	Komakech Gabriel	E-mail Supported, Agent- Based Portal for Automobile Sales	Graduated 2006
14	2003/HD1363/U	Kahiigi Kigozi Evelyn	A centralized identity Management System To Support Usage Of Shared Network Services	Graduated 2006
15	2003/HD18/1408/U	Waibale C S Simon	Monitoring Computer Resources of Small-Medium Enterprises: The case of ERP adoption in least Developed countries	Graduated 2006
16	2003/HD18/1371/U	Ssebadduka Mary	Risk Perceptions in Information Systems Projects	Graduated 2006
17	2003/HD18/1425/U	Kahiigi Byamukama P	A planning Tool for the Electricity Transmission Planning process	Graduated 2007
18	2004/HD18/1588/U	Nambaziira Stella Maris	An Online Tool for monitoring and Tracking Vaccine and Vaccine Logistics Utilization at District Level	Graduated 2006
19	2001/HD18/1729/U	Moya Moses Ngati	Data Warehousing In Telecommunications – Case Study Network Planning and Optimisation in MTN Uganda	Awaiting Graduation
20	02/HD18/452/U	Mwinganisa Pius	E-readiness for Sustainable National Development: Public Information Model	Awaiting Graduation
21	2003/HD18/1385U	Bbale Fred	Accelerating Object Location in Large Distributed Systems: A Grid-Based Caching Approach	Approved proposal (working on corrections)
22	2004/HD18/2066/U	Nakibuule Rose	Investigating Performance of Job Allocation Schemes in Cluster	Graduated 2007
23	2004/HD18/1624/U	Mugabe Samuel	An Integrated Customer Relationship Management	Graduated 2007

			System for Mobile Telecom Operators	
24	2004/HD18/1576/U	Kyewalabye James Charles	Enhancing Property Rates Management Using N-Tier Architecture: A Case Study of Kampala City Council	Graduated 2008
25	2004/HD18/1575/U	Kyanda Swaib B	A Web Based Voter Registration Tool	Graduated 2009
26	2005/HD18/3615U	Malika Michael Balayo	Analysis of Wireless Local Area Network (WLAN) Security	Graduated 2008
27	2005/HD18/4053U	Ssewankambo Damian	A Simulation Model of Loan Servicing for Savings and Credit Cooperative Organisations (SACCOs) under the Poverty Alleviation Program	Graduated 2008
28	2005/HD18/0009U	Ekotu John Juventine	A Framework for Evaluating Information Technology in Government	Approved Proposal
29	2005/HD18/0022U	Komunte Mary	A Trust Model for Building Confidence in Business-to Consumer Electronic Commerce Transactions	Graduated 2007
	2005/HD18/592U	Lamunu Joyce	An Evaluation of Forensic Tools	Awaiting Examination

Current PhD Students

S/No	REG NO.	NAME	TOPIC	STATUS
1	2005/HD18/4231U	KITOOGO FREDRICK EDWARD	Improved Use of Machine Learning Techniques in Named Entity Recognition	Successfully defended. Awaiting Graduation
2	2005/HD18/4235U	WAKABI WAISWA PETER PATRICK	Association Rule Mining Using Evolutionary Computing	Approved Proposal ; Excellent progress
3	2005/HD18/4233U	OKORI WASHINGTON	Computational Model for Prediction of Agricultural Drought Disaster	Approved Proposal ; Excellent progress
4	2006/HD18/4791U	YIGA Stephen	A Framework for Managing Harmful Program Codes	Withdrew Academic Year, 2008/2009
5	2006/HD18/4746U	Theodora Mwebesa Twongyire	A Collaborative Framework for Supporting Indigenous Knowledge Management	Approved Proposal ; Excellent progress
6	2007/HD18/4862U	Habinka Annabella Dorothy	Knowledge Management in Small and Medium Enterprises in Uganda: A Studio-Based Approach	Approved Proposal ; Excellent progress

Postgraduate Diploma (PGD) in Computer Science graduates

Since 2001, I have supervised over 60 PGD students. For purposes of the record, I have stated only three graduates I supervised.

S/NO	REG NO.	NAME	TOPIC	STATUS
1	2001/PGD18/111/U	John Ngubiri	A web based digital directory for Makerere University academic staff	Graduated 2003
2	2002/PGD18/420/U	Johnson Mwebaze	Sales Settlement and Management System	Graduated 2003
3	2001/PGD18/059/U	Fred Kakooza	A System Proposal for the Establishment of the National Identification System for the Republic of Uganda	Graduated 2003

21. Staff Development Program

As of 1st July 2001, the Institute of Computer Science and now the Faculty of Computing and IT had 1 PhD holder, 4 master's holders and the rest bachelor's holders. Baryamureeba together with his colleagues at the Faculty of Computing and IT designed and implemented staff training and retention programmes that have led

to all staff in the faculty attain a minimum qualification of maters degree (with exception of new teaching assistant entrants that have been enrolled on M.Sc. programmes) and over 99% of the academic staff are currently pursuing PhD training both locally and internationally. The number of visiting staff has increased from 0 in 2001 to over 40 in 2008. The visiting professors are supporting in house staff training (they work mainly with PhD students registered at Makerere University) and other local researchers with the aim of building a teaching and research culture in computing at Makerere University. As of 20/03/2009 the Faculty had 20 PhD holders appointed on permanent terms and by end of 2009 this number is expected to rise to 30 as a result of PhD completions by faculty staff and new PhD holders being appointed.

22. National Development Programs

He has initiated several programs at national level and notable among them include:

National Software Incubation Centre

Project Coordinator and Manager : Prof V. Baryamureeba barya@cit.mak.ac.ug

Rockefeller Foundation provided a seed grant of US\$ 300,000 for the establishment of the software incubation facility at CIT. The facility provides Computing graduates from all the universities in Uganda with hands on skills in software development. The students are mentored by professionals from the industry [Uganda] and abroad especially from IBM, Cisco and FedEx who develop problems in form of projects for the students to undertake. The facility not only provides the students with technical skills, but also with other skills like entrepreneurship, marketing, product branding among others. Every 6 months the faculty graduates at least 100 Certified Software Engineers/ Developers.

National ICT Incubation Centre

Makerere University Faculty of Computing and IT has been designated a national ICT Incubation Centre and will initially role out call centres, data centres and e-learning centres in Uganda. Baryamureeba is currently the project coordinator and is working closely with The Office of the President (Economic Monitoring), Ministry of ICT and Ministry of Education and Sports in Uganda.

Partners in Learning Program

The Ministry of Education and Sports signed a Memorandum of Understanding (MoU) with Microsoft in December 2004. He played a major role in the activities that preceded the MoU. The Faculty of Computing and IT under his Leadership as Project Manager has undertaken the implementation of most of the activities under the above MoU in close cooperation with faculties/ schools/institutes at Makerere University and other public universities. Some of the activities include but are not limited to:

- Train teachers and lecturers in tertiary institutions in the use of ICTs in teaching and learning;
- Impart ICT skills to the students/ staff in tertiary institutions;
- Advise on appropriate equipment and infrastructure for online education.

Strengthening ICT Training and Research Capacity in the Four Public Universities in Uganda

This is the 2nd ever joint ICT project bringing together all public (the four public) universities (Makerere, Mbarara, Gulu, and Kyambogo). The programme funded by the Netherlands Government through the Netherlands organization for international cooperation in higher education (Nuffic) is worth 5.7 million euros. He wrote the project proposal and currently is the Project Leader in Uganda and Overall Project Coordinator. Thirty (30) members of staff from the four public universities are training in The Netherlands and Uganda at PhD level supported under this project. All the 4 public universities have been provided with computing equipment and strengthened in terms of teaching and research. The project commenced on 1st June 2008 and will end on 31st May 2011.

Building a Sustainable ICT Training Capacity in the Public Universities in Uganda

This is the first ever joint ICT project brought together the four public universities (Makerere, Mbarara, Gulu and Kyambogo). The programme funded by the Netherlands Government through the Netherlands organization for international cooperation in higher education (Nuffic) was worth 3.4 million euros. He conceived the project idea and was the Project Leader in Uganda and Overall Project Coordinator. Thirty two (32) members of staff from the four public universities trained in The Netherlands and Uganda at master's level and another 6 members of staff are training at PhD level in the Netherlands supported by this project. All the four public universities were provided with computing equipment and strengthened in terms of teaching and research. The project commenced on 1st July 2004 and ended on 30th June 2008.

Strengthening the Institutional Capacity of Uganda's Technical Colleges

The aim of this project is to strengthen the institutional capacity of the 4 technical colleges in Uganda so as to enhance the quality of technically skilled manpower, notably through increased use of ICTs, thereby contributing to poverty eradication and development of Uganda. The project is to address capacity building at institutional level at the four technical colleges in Uganda, namely Lira Technical College, Elgon Technical College, Bushenyi Technical College and Kichwamba Technical College. The main activities of the project include institutional strengthening through development of new policies (aligned with national policies) and training programmes, strengthening of ICT capacity and staff capacity building. The target group are the staff and students from the technical colleges. He conceived the project idea and later on wrote the project proposal that was used as a basis for funding. The four year project is funded by The Netherlands Government through Nuffic to the tune of 2 million euros and commenced on 1st March 2006. He is a Lead Ugandan Consultant on this project.

Strengthening the Capacity of the Faculty of Development Studies at Mbarara University of Science & Technology

This project aims at strengthening the capacity of the embryonic Faculty of Development Studies at Mbarara University of Science & Technology (MUST) to effectively and efficiently teach tailor-made and relevant courses in Development Studies and other related areas such as Business Administration do active research and engage in community development work to promote grassroots development. This is being done through improvement and development of 1) Human Resources (Ph.D. & MSc Training and Specialised Training), 2). Relevant Education Programmes, 3). A Community Based Outreach Program, 4). Research Capacity & 5). The Physical & Teaching Infrastructure. The target group are Staff and Students of the Faculty of Development Studies at MUST. The project will establish a centre of excellence in Development Studies training and research at Mbarara University of Science & Technology that will continuously address the human resource gaps for suitable Development Practitioners to work in the largely rural areas of Uganda to address poverty issues and promote socio-economic development. Baryamureeba together with the Dean of the Faculty of Developed Studies at Mbarara University of Science and Technology developed this proposal. The Netherlands Government through Nuffic is funding the project to the tune of 1.75 million euros over the next four years beginning January 2007. He is a member of the Project Steering Committee.

Quality of Service (QoS) in Least Developed Countries (LDCs): A Case Study of Uganda

The research focused on integrated and differentiated services with particular emphasis on how the results could help the Internet service providers, end users and regulatory bodies in meeting their goals and objectives. MTN Uganda and UTL Uganda were used as case studies. The research suggested heuristic algorithms aimed at improved quality of service. The results showed how countries such as Uganda can optimally utilize the small bandwidth without charging the end users more. The Research Grant of USD 70,000 was provided by Cisco Systems University Research Program. He was the principal researcher/ Primary Investigator and Project Manager.

Coordinating Computing Training in Ugandan Tertiary Institutions and Hosting the Computing National Curriculum Development Centre

On 15th March 2004, Makerere University Institute of Computer Science (MUICS) hosted a one-day workshop for all Deans/Directors/Heads of Computer Science Faculties/Institutes/Departments of all public and private Institutions in Uganda. At the end of the workshop it was resolved that:

- i. An Umbrella organization 'Uganda National Academic for Computing and Internet Technologies (UNACIT)' bringing together all Universities in Uganda be formed and that Makerere University Institute of Computer Science (now Faculty of Computing and Information Technology) takes a preliminary leadership role;
- ii. An ICT National Curriculum Development Centre be setup at Makerere University to mainly help all tertiary institutions develop good ICT curriculum.
- iii. The organization establishes interfaces with the Ministry of Education and Council for Higher Education to act as mouth piece for all Universities;
- iv. The organization be charged with quality assurance on all computing and ICT programmes in universities in Uganda;
- v. The organization be mandated to organize a yearly conference and work towards the creation of a journal.
- vi. That the organization assumes the role of implementing national certifications in all areas of ICT to avoid recognition of certifications being awarded by fake institutions.
- vii. UNACIT establishes working linkages with the National Council for Higher Education-Uganda and any other regulatory bodies or professional bodies in the discipline of computing among other resolutions.

He is the President of UNACIT since its inception in 2004.

Infrastructural Development

In the period 2001 to 2003, he spearheaded the construction of an ultra modern computing centre, 2500 sq metres of space, which was officially opened on 28th January 2004 funded to the tune of 13.2Million NOK under the project "Strengthening the Institute of Computer Science, Makerere University. Two years down the road, a contract was awarded to Complant Ltd, a Chinese construction company to put up the largest computing centre in Africa with an approximate area of 12,500sq meters. Construction began in February 2006 and the building was commissioned/ opened on 28th January 2009 by H.E. Yoweri K Museveni. The money for the new building was internally generated in the faculty during the last 3 years. The total investment in infrastructure development from both local and development partners (donors) now stand at about 50 billion shillings (US\$ 30 million) for the Faculty of Computing and IT alone over the 7-year period (2001-2008). The Faculty of Computing and IT is rated highly as a centre of ICT Excellence in Sub-Saharan Africa. The Faculty of Computing and IT is to transform into Makerere University College of Computing, Communications and Information Sciences (CCIS).

Flexible Education Programmes

Ugandan society is characterised by the poor and the rich. Most graduates from Ugandan institutions are computer illiterate. The International Computer Driving License (ICDL) is the standard license for computer literacy, however it costs more than 900,000/= to obtain such a certificate from training centres in town. In view of the above, motivated with the desire to make university graduates employable and also to optimally utilize the computing resources the midnight programme that focuses on skills based training was started and over the years it has provided ICT skills to several graduates hence increasing their employability. Variety of skills based programmes such as ICDL, Certificate in Computer Applications (CCA) and Cisco Certified Network Associate (CCNA) are conducted and training tuition fees range from 50,000/= to 300,000/=.

Trustee and Honorary member, Uganda Young Entrepreneurs Association

Trust and Honorary member, Uganda Young Entrepreneurs Association (August 2005-todate). This is a support association for young entrepreneurs. It offers peer mentorship, networking, speaker events and social activities. Through this association he has been able to touch the lives of many youth in Uganda and imparted on them skills to be successful entrepreneurs. These events have been extended to universities in form of monthly seminars.

Corporate Social Responsibility

The Faculty is engaged in social activities mainly community outreach activities through out the country. This is aimed at improving the socio-economic base of the rural people through exploitation of ICT. The impact is expected to be more feasible on the ground as the faculty widens its financial base to fully facilitate these activities. These activities have covered Uganda Police Force, Uganda Peoples' Defence Forces, Ministry of Foreign Affairs, Ministry of Health, Ministry of Agriculture, Organised women groups and Government of Burundi among others.

23. Regional Expertise and Development Programs

Lead Contact among the African Universities, IBM Global Innovations Outlook: Enabling Economic Growth to Accelerate Positive Change in Africa (www.ibm.com/gio). Global Innovations Outlook (GIO) identifies emerging business, technology and societal trends that will lead to thought leadership, policy shifts and collaborative commercial opportunities for IBM, its clients and its partners.

Project Manager for Eastern African Region, Pan African e-Network on Tele Education, an Initiative of the Government of India and African Union (August 2006 –to date)

Pan-African Network connects 53 Pan-African countries as one network through satellite, fiber optics and wireless links for providing electronic and knowledge connectivity to the African nations based on the connectivity mission with an initial announced budget of US\$ 50 million for its installation, initial operation and maintenance for 2 years. Based on the MOU between Govt of India and African Union, it has been extended to 5 years and accordingly the additional cost estimates to the tune of US\$ 50 million have been worked out and approved. The Pan-African network comprises of the heads of State, The Tele-Medicine and the Tele-Education sub networks. Already Makerere University Faculty of Computing and IT is coordinating online degree programmes (www.cit.mak.ac.ug) offered by Amity University under this project.

Lead Researcher and Project Leader in Uganda, Local Governance and ICTs Research Network for Africa (LOG-IN Africa) (2006 to 2007)

A Project that was funded by the International Development Research Centre (IDRC) to the tune of Two (2) million Canadian Dollars. LOG-IN Africa was an emergent pan-African network of researchers and research institutions from nine countries¹. It assessed the state and outcomes of e-local governance² initiatives in Africa, and in particular how ICTs were being used to realize good local governance³ at four levels: a) the internal organizational processes of local governments; b) the provision of information and service delivery; c) the promotion of the principles of good governance; and d) public participation and consultation. As a virtual network of research peers, it was coordinated through the African Training and Research Centre in Administration for Development (CAFRAD), ensuring effective implementation; a pan-African outlook; and high-level policy dissemination of research results.

E-Governance, free knowledge initiative and e-campus NEPAD initiatives.

¹ Egypt, Ethiopia, Kenya, Mauritius, Morocco, Mozambique, Senegal, South Africa, and Uganda.

² The application of ICTs to transform the business of government and to enable the broad inclusion of citizens in public management, public service delivery and democratic participation at the local level.

³ The exercise of economic, political, and administrative authority to better manage the affairs of a "locale".

He has been involved in a series of strategic planning events across the African continent to identify and develop synergies among related projects on the African continent.

Consultant, African Development Forum (ADF) and World Summit on Information Society (WSIS) (2002 to 2007)

He was on ICT Committee of both organizations through the auspices of the United Nations Economic Commission for Africa (UNECA) for which was a consultant.

Project Manager, VarsityNet Project for East Africa Region

Overall, this programme was geared towards enabling African universities and research institutions play a greater role in the information society and become one of its key pillars by offering innovative solutions and applications. One of the specific aims of the project was to encourage specifically the software development role of universities reinforcing their potential role as incubators and generators of ideas. The VarsityNet project has undergone two phases. The first phase was jointly implemented by the Universities of Nairobi (Kenya), Makerere (Uganda), Dar-es-Salaam (Tanzania) and the Jomo Kenyatta University of Science and Technology (Kenya). The project started in September 2003 and completed in June 2004. The team developed a unique methodology to undertake a needs assessment at the East African Community (EAC) and conducted a survey. The survey was targeted at EAC and its three autonomous institutions: Inter-University Council of East Africa (IUCEA), the East African Development Bank and the Lake Victoria Fisheries Organization (LVFO).

The second phase scaled up the research and development activities and applied the knowledge and expertise accumulated during the first phase to a wider context. One of the specific objectives of the second phase was to create a common framework, based on Open Source Software (OSS), for integrating IUCEA member universities' education services (the focus was on registration of new and continuing students; generation of students' transcripts and certificates; online access to student information). Makerere University was mandated to develop an OSS product that manages university students' information needs. A prototype of the product was released on 8th August 2005. The third phase of the project commenced in August 2006 and ended in 2008. The project was funded by United Nations Economic Commission for Africa (UNECA) and coordinated by the Inter-University Council of East Africa (IUCEA).

Connecting the EU & Sub-Saharan Africa for ICT Partnerships (EuroAfriCa-ICT)

Overall Project Coordinator : Orionis, France

Project Coordinators in Uganda : Prof V. Baryamureeba barya@cit.mak.ac.ug

: Dr. Idris A. Rai rai@cit.mak.ac.ug

Project Administrator in Uganda: Ms. Deborah Namirembe dnamirembe@cit.mak.ac.ug

This is a European Commission sponsored project that officially started on January 01, 2008. The new European Strategy for Africa adopted by the EU Council in December 2005 gave a comprehensive policy framework that reflects the priorities of the EU in its relationship with Africa - **Towards a deeper and stronger cooperation between Africa & the European Union**. The development of EU-Africa Science and Technology cooperation on ICT is of mutual and strategic interest as ICT has been identified as an enabler for a sustainable and long-term development of the African continent.

The project main objective: To identify, promote and support strategic S&T cooperation opportunities on ICT between European and African organization, and to support policy dialogues between Europe and Africa. Other project objectives are to:

- Facilitate and support a strengthened EU-Africa dialogue;
- Identify and develop strategic cooperation projects of common interest and mutual benefit;
- Strengthen concentration and develop synergies between existing initiatives, programmes and projects;

- Pursue awareness rising in Africa;
- Ensure a wider promotion of cooperation opportunities in Europe;
- Pursue a specific focus on South Africa;
- Ensure a wider promotion of cooperation opportunities in Europe; and
- Develop/initiate a specific action towards the Caribbean.

Beneficiaries of this project include: Orionis, a Division of Sigma Consultants (France), The Meraka Institute of CSIR (South Africa), The Panos Institute West Africa, PIWA (Senegal), The Academy of Sciences for the developing World, TWAS (Italy), The Africa Unit of The Association of Commonwealth Universities, ACU (UK), Makerere University (Uganda), The Kigali Institute of S&T (Rwanda), The Caribbean Academy of Sciences (Jamaica), and The Agence Universitaire de la Francophonie (Belgium). For more information Please visit the project website at: www.euroafrica-ict.org

24. Collaborations

He has been able to forge meaningful collaborations and notable among them include:

Makerere University Faculty of Computing and IT and University of Cambridge Computer Laboratory, April 2008 –to date

Prof. Baryamureeba is working with Prof. Andy Hopper CBE FRS FREng, Head of Department, and Professor of Computer Technology to develop the "Computing for the Future of the Planet" strategy at University of Cambridge Computer Lab. The research areas of focus are networking, computer systems, security, and more generally "Computing for the Future of the Planet".

Makerere University Faculty of Computing and IT, University of Groningen, Radboud University and Eindhoven University of Technology, 2004 –to date

The collaboration is anchored around joint research, graduate training and expert support to public Universities in Uganda. The collaboration is supported by the Netherlands Government through Nuffic.

Makerere University-London South Bank University (MAK-LSBU) Collaboration

In 2005, Makerere University and London South Bank signed a landmark collaboration agreement under which both Universities run joint degree programmes (M.Sc. in Internet and database systems, M.Sc. in Information systems management), joint distant PhD programme in Computing, Joint research and collaborate in quality assurance enhancement. The students on the master's programmes spend the 1st semester at MAK where they pay local fees and then proceed to LSBU for the 2nd semester and a dissertation and there after obtain LSBU degree in collaboration with MAK. This arrangement has made UK degrees affordable to the Ugandan community.

Makerere University-University of Bergen (MAK-UiB) Collaboration

Under this collaboration, he has been able to establish a comprehensive collaboration programme between the Faculty of Computing and IT at MAK and the Department of Informatics at UiB in areas of student exchange, staff exchange and research collaboration.

Public Universities in Uganda Network on ICT for Sustainable Development

A sub-association focussing on public universities under the general umbrella of Uganda National Association of Computing and Internet Technologies has been created to fast track computing and ICT development at public universities. He currently coordinates and manages this programme on behalf of the five Vice-chancellors' of the five public Universities. This has led to drastic improvement in ICT facilities, teaching staff and teaching materials at the five public universities.

Network of East African Universities in the area of Computing and Internet Technologies

He is currently spearheading the formation of a network at the East African level in the area of computing to be funded by development partners. This is aimed at maximising the sharing of resources within the East African community and enhance regional development through integration of ICT in all functions of government to bring about socio-economic development.

The Faculty of Computing and IT has several collaborations with the private sector. A full list of collaborations can be found at www.cit.mak.ac.ug/projects.php

25. International Journal of Computing and ICT Research

Motivated with the desire to provide opportunities for the local researchers to publish high quality research findings, he championed the starting of a journal: International Journal of Computing and ICT Research (www.ijcir.org) that is housed at Makerere University but with an editorial board comprising of the world's best Professors in the areas of Computing and ICT. This has not only strengthened the region but is also acting as the motivating factor for the local researchers to undertake cutting edge research.

26. Anonymous Referee

He has reviewed several international journal papers for example papers for the international journal: Computational Optimization and Applications (ref. Professor Jacek Gondzio, J.Gondzio@ed.ac.uk).

27. Membership of Professional Bodies

He is a member of the following professional bodies:

- Association of Computing Machinery (ACM), ACM Membership No.: 7250468. barya@acm.org
- Africa ACM SIGCSE Founding Member. The complete list of founding members: Dr. Izzeldin Osman, Sudan, Dr. Hoda Hosny, Egypt, Laila Khadarawy, Egypt; Prof. Baryamureeba, Uganda; Manar El-Kady, Egypt; Heba Faidy, Egypt; Dr. Omar Eldai, Sudan; Dr. Ahmed El-Deeb, Egypt.
- Kampala ACM Chapter
- IEEE Computer Society
- Uganda Computer Society
- Uganda National Academy of Computing and Internet Technologies-UNACIT; currently serving as President.
- Honorary member of the International Association of IT Governance Standards

28. Annual International Conference on Computing and ICT Research

With effect from August 2005, the faculty started running a series of annual conferences (formerly known as Annual International Conference on Sustainable ICT Capacity in Developing Countries) during the month of August. These give an opportunity to researchers within and outside the region an opportunity to present their research findings to the international community. For details visit: <http://cit.ac.ug/iccir/home/>. Prof. Baryamureeba championed this initiative together with Dr. Ddembe Williams. Prof. Baryamureeba serves as the default Chair by virtual of the fact that he is the Dean of the Faculty that hosts the conference.

29. Capacity Building workshops

He has facilitated several capacity building workshops under ICT Consults Ltd and individually.

- (1) Facilitator, Leadership and Management Skills for Heads of Department, 13th June –29th June 2007. I handled the topic on 'leadership and strategic management: challenges and opportunities at Makerere University'.
- (2) Organizer of the 1st ICT Education Innovative Forum in Uganda workshop, 30-31st March 2009. The Ministry of Education and Sports, in partnership with Microsoft have been pursuing various activities aimed at improving access to and use of Information and Communication Technology (ICT) in Post-Secondary schools in Uganda through a memorandum of understanding signed in 2004. The partnership aims at facilitating Ugandan schools to access ICTs, both equipment and skills, so that pupils and students get exposed to ICT early in their education. Makerere University Faculty of Computing and IT and ICT Consults Ltd are partners to this memorandum of understanding.
- (3) Plenary Speaker at the 2nd Consultative workshop on ICT Training and Research Partnerships in Uganda, 5th December 2008, Grand Imperial Hotel, Kampala, Uganda. He presented a paper on "Capability Profile of the Public Universities: Exploring Opportunities for Collaboration". The objectives of the workshop were to demonstrate the capability of the public universities in fostering ICT development in Uganda; to identify the missing gap in the computing training programmes; to interest the industry to avail their ICT challenges as potential projects for University students; and to identify strategies that would enable the Universities improve their visibility. He was also the organizer of the event.
- (4) Presented a plenary paper on University Management: Case of a University Academic Department. Background Paper for the Workshop on Modern University & Research Management, 16th - 18th October 2008 held at Colline Hotel Mukono, Uganda. He was also the organizer of the event.
- (5) Presented a plenary paper on Quality Assurance in Institutions of Higher Learning. A Background Paper for the Workshop on Quality Assurance, 4th -6th September 2008 held at Colline Hotel Mukono, Uganda. He was also the organizer of the event.
- (6) Facilitator of the Workshop on the Promotion and Appointment Policy of Kampala International University, 12th July 2008, Protea hotel, Kololo, Kampala.
- (7) Presented a plenary paper on 'The Status/ Developments in ICT Training and Research in Uganda' at the Consultative Workshop on ICT Training and Research Partnerships in Uganda, 18th December 2007, Serena Hotel, Kampala, Uganda. He was also the organizer of the event.
- (8) Presented a Plenary paper on Leadership and Strategic Management in Higher Education Institutions in Uganda. Paper for the Workshop on Modern University & Research Management, 23-25th November 2007 held at Colline Hotel Mukono, Uganda. He was also the organizer of the event.
- (9) Presented a Plenary paper on The Role of ICT in Quality Assurance and Enhancement in Higher Education Institutions in Uganda. A paper presented at The Quality Assurance Workshop, 2nd -4th November 2007, Mukono, Kampala. He was also the organizer of the event.
- (10)The other workshops can be got from ICT consults Ltd website.

30. Some of the International Conferences and Workshops Attended

He has given keynote addresses, presentations and other talks at several national and international conferences both academic and business oriented worldwide. He has also attended workshops and retreats relevant to national development of Uganda. Some of these include:

1. Speaker, 2nd NCHE Workshop on Ideas and Models for Financing Higher Education, 17th September 2009. The topic was 'Financing of Makerere University Faculty of Computing and IT up to June 2009'.
2. Plenary Speaker, at the 36th Global health Council Annual Conference on the theme "New Technologies + proven Strategies = healthy Communities. 26-30th May 2009, Washington DC. The Global Health Council's annual conference is recognised as one of the premier, "must attend" events of the year in the field of global health. Its unique contribution lies in its ability to bring together a diverse group of over 2500 leaders and implementers from more than 85 countries for dialogue and the substantive exchange of information on the wide range of global health issues.

3. Guest of Honour, at a public dialogue on online journalism: "the opportunities and challenges of online journalism in Uganda" held on 17th March 2009 at the Department of Women and Gender Studies, Makerere University
4. Chief Organizer/ host of EuroAfrica-ICT awareness workshop and presented a plenary paper/ opening address at the Euro-AfriAca-ICT-FP7 awareness workshop on supporting FP7/ICT proposals involving sub-Saharan African Organizations, 20th and 21st October 2008.
5. Speaker, at a workshop on "Academic Partnerships between Universities in Africa and the United States. 13-15 December 2008, Princeton University.
6. Panellist at the Opening Session and Conference Committee Member at the "Technical Skills Africa Conference", 8-10th December 2008, Johannesburg, South Africa. The conference assisted stakeholders involved in the power, mining, ICT and infrastructure industries to develop skills strategies, analyse the cause and effect of skills shortages and learn how technical skills can be enhanced in order to meet the demand being experienced by these industries.
7. Presented a paper to session on meet the Professor on: From Ph.D. to Dean in 5 Years: A Success Story in Capacity Building. Presented at the 3rd Conference on Global Health and Vaccination Research supported by the Research Council of Norway and the Norwegian Forum for Global Health Research, 30-31st November 2008.
8. Presented a plenary paper under the plenary session Experiences from Partnerships in Global Health on Development of a Modern University in Africa—a NORAD/ NUFU/GLOBVAC Experience. Presented at the 3rd Conference on Global Health and Vaccination Research supported by the Research Council of Norway and the Norwegian Forum for Global Health Research, 30-31st November 2008.
9. Attended IBM Global Innovation Outlook - Johannesburg - 9 October, 2008. Joined a select group of leaders from business, government and academia in the culmination of a year-long examination of economic development and opportunity in Africa.
10. Keynote address, On the Role of ICT in the Integration of East Africa Community, 22nd August 2008, Uganda Christian University, Mukono, Uganda at the Annual East African community students' and cultural summit from 21st - 23rd August 2008, under the theme; "The role of culture and sports on the millennium challenges among the youth in East Africa." Organized by the East African Community Students' Union (EACSU)
11. Discussant of the paper Presented by the Minister of State for Higher Education, Hon Gabriel Opio " On the Impact of Higher Education on the Economy", Organized by 'The Union of Associated Peers for Knowledge Dissemination', 22nd August 2008, UMA Conference hall, Kampala, Uganda. The President of the Republic of Uganda was the Guest of Honour.
12. Key Note address on " Using Technology to Communicate Effectively and Promote Good Leadership". Uganda National Guild Presidents Council. Theme: Good Leadership in Institutions of Higher Learning, a Basis for Democracy and National Development. 1st -3rd August 2008, Makerere University, Uganda.
13. NOVATECH 2008, the ICT Africa Market Place; 13-15th February 2008. This provided a platform companies/ organizations from both Africa and Europe to interact. He also chaired the committee on ICT skills.
14. EU's Euro-AfriCa ICT Summit on Connecting Sub-Saharan Africa and the European Union for ICT partnerships under FP7, 31st January –1st February 2008, Brussels and Nice France. Attended and presented a paper at the meetings.
15. Public Services Summit 2007, 8 December –11th December 2007, City of Stockholm. The summit provided the opportunity to explore how the public sector is using (internet) network as a platform the way it works, to enhance access to information and resources and to create rich, two-way links with citizens.

16. IBM Global Innovation Outlook, 4th December 2007, New York. Participated as a panellist the IBM Global Innovation Outlook (GIO) for Africa co-hosted by IBM's Executive Vice-President for Innovation and Technology, Nick Donofrio and Senior Vice President, IBM Global Services, Ginni Rometty. The meeting took place in New York City on Tuesday 4th December 2007 at the Millennium Broadway Hotel.
17. IBM global innovations outlook, Cape Town, September 4-5, 2007. The topic of discussion was 'Enabling economic growth to accelerate positive change. This meeting was attended by representatives from business, science, government, NGOs and academia.
18. Annual International Conference on Computing and ICT Research, Makerere University Kampala, 2005-todate. I have attended and presented papers at the above conference every August of every year since 2005. For details visit: <http://cit.mak.ac.ug/iccir/>
19. Makerere University Council Orientation Retreat (15th -17th February 2007). This workshop was to acquaint Council members with Makerere University operations and also provide a visioning opportunity for Council members over the next four years.
20. Makerere University Planning Retreat (9th-13th February 2007). Attended and chaired the session on Private Sector expectations from Makerere University. This retreat discussed ideas that will lead to the Makerere University Strategic Plan for 2007-2017.
21. The Uganda National Consultative Forum on Open and Distance learning: Opening New Frontiers for Equity and Quality Education through Open and Distance Learning, 6th- 8th December 2006. The objectives of the forum were to: Bring together all key stakeholders from the Ministries, educational institutions and representatives of the civil society to examine the potential of open and distance learning to reach all levels of education; To explore the ways in which distance education methodologies can serve to fulfil the development needs of Uganda; and To establish a consensus on the broad framework for a national policy on Open and Distance Learning.
22. Specialized ICT Committee of the Universities in East Africa, Nairobi Kenya, 26th -27th November 2006. Attended and presented a paper at the ICT/Computer Science specialist meeting organised by the Inter University Council of East Africa. Matters concerning research, teaching and learning in the area of ICT were discussed and resolutions reached. It was also agreed that a permanent committee on ICT be formed.
23. Partnership for Higher Education in Africa which was launched in 2000 by Carnegie Corporation of New York, the Ford Foundation, MacArthur Foundation, Rockefeller Foundations, The William and Flora Hewlett Foundation and the Andrew W. Mellon Foundation in cooperation with the University of Cape Town and the U.S. National Academy of Sciences organized a forum, 18th-22nd November 2006, the first in an anticipated series that brought together African university Vice Chancellors and other leaders to explore "Frontiers of Knowledge for Science and Technology,". He was one of the speakers at this first forum. He gave a talk on curricula for creating human capital needed for ICT-led economic growth: Case of Faculty of Computing and IT, Makerere University.
24. Chief Guest, The Students of Uganda Christian University Mukono organised a one-day conference on November 11 2006. The main objective of the conference was educational on the role of ICT in socio-economic development. He was the chief guest at this function and he gave a keynote address on the theme 'ICT a resource for Socio-Economic Development'.
25. Keynote Address at the 3rd Annual Research Conference of Mbarara University of Science and Technology, 26-27th October 2006. Theme: Strengthening Research in Universities for Sustainable Growth and Development. He gave a keynote address on the topic: Harnessing Information and

Communication Technologies to Accelerate Economic Development – Opportunities for African Universities.

26. The Congress of African Scientists and Policy Makers, Alexandria, Egypt, 26-28 October 2006. The African Union Commission was honoured to have the theme "Science, Technology and Research for Africa's Development" assigned to the January 2007 summit of Heads of State and Government. This honour presented a great opportunity to Heads of State and Government to have a focused discussion on Science and Technology (S&T) as instruments and catalysts for our continent's socio-economic development. Science and Technology development requires the full support of the leadership and should be visibly recognised at all levels of decision making in the African Union and in the individual countries. In preparation for the January Summit, the African Union Commission organized several meetings and conferences among them the Congress of African Scientists and Policy Makers that took place in Alexandria, Egypt, from 26th -28th of October 2006. He was one of the representatives of Uganda at this congress.
27. Realizing Uganda's Competitive Potential: A National Workshop on Achieving Prosperity and Economic Growth Through Wealth Creation, Sheraton Hotel, Kampala, August 29—August 30 2006. On Tuesday August 29 and Wednesday, August 30, Uganda held its 1st National Competitive Workshop. This event was sponsored by the medium Term Competitiveness Strategy under the auspices of the Ministry of Finance, Planning and Economic Development, the Private Sector Foundation Uganda, the United States Agency for International Development, the British Department for International Development, The Royal Netherlands Embassy, the World Bank and the European. The objective of the workshop was to define the steps that Uganda must take to develop and implement a competitiveness agenda that will leverage private sector innovation and investment to create jobs and generate wealth for the country. The keynote address was delivered by Garret Fitz Gerald, former Prime Minister of Ireland, who led the country through a period of economic turn-around in the 1980s that ushered in an era of unprecedented economic growth. He was one of the delegates at this workshop.
28. Attended and successfully completed a one day training workshop on pedagogical skills conducted on the 6th February 2006 by the Department of Higher Education, School of Education, Makerere University, Uganda
29. Attended and successfully completed a Leadership and Management Development Workshop held at Imperial Resort Beach Hotel, Entebbe, Uganda from January 27th to 29th January 2006 by Horizon International Ltd.
30. International Floos and Free Knowledge workshop, held in Pretoria, 20-24th September 2006
31. 3 –5th September 2005, Local Governance and ICTs Research Network for Africa Workshop, Nairobi, Kenya
32. Conference on large scale scientific computations, Sozopol, Bulgaria, 4-11th June 2005
33. Nuffic conference- Changing the landscape, 23d –25th May 2005, The Hague, The Netherlands. The theme of the conference was on how to make support to tertiary education and research in developing countries more effective.
34. Regional workshop on e-governance to enhance reforms and public service performance in Africa, held in Ghana, 22-25th Nov 2004
35. African Development Forum (ADF IV) organized by the United Nations Economic Commission for Africa, 11-15th October 2004. The purpose of the forum was to establish a highly focused African driven development agenda that reflects consensus among governments, major stakeholders, and partners on key development issues.
36. UNESCO Expert Group meeting for 'Developing the e-campus model for Africa, Pretoria, South Africa, 9-11th November 2004
37. International Conference on digital forensics, Maryland, USA 7-15th August 2004; Plenary paper on 'Enhanced digital investigation process'.
38. National Council for Higher Education Capacity Training workshop, 26-30 July 2004, Jinja Nile Resort Hotel, Uganda; presented paper on ICT use and management in Institutions of Higher learning.

39. Over of ICT in Rwanda and advanced training programme workshop, 14-17th April 2004, Kigali, Rwanda.
40. 3rd International Conference on ICT and Economic Development, 3-5th March 2004, Accra Ghana.
41. Cisco Academy Conference, 22-24th November 2003, Johannesburg, South Africa
42. Microsoft Research Academy Days, Cape Town, South Africa, 24 –26th Nov 2006.
43. Microsoft Research .NET Regional Crash Course conducted by Microsoft Research, Cambridge, UK. June 21st to June 23rd 2003 in Dubai, UAE.
44. Fourth International Conference on LARGE-SCALE SCIENTIFIC COMPUTATIONS (ICLSSC) June 3-8, 2003, Sozopol, Bulgaria
45. Regional Conference on Information and Communication Technologies and Continuing Medical Education in East and Southern Africa, Moshi, Tanzania, 8th – 10th April 2003.
46. 16th IMACS WORLD CONGRESS 2000 on Scientific Computation, Applied Mathematics and Simulation in Lausanne, Switzerland August 21-25, 2000 (Two papers)
47. The International Conference on NUMERICAL MATHEMATICS on the 40th Anniversary of the journal BIT" August 9-12, 2000, Lund, Sweden.
48. The 9th Stockholm Optimization Days, the Royal Institute of Technology (KTH) in Stockholm, Sweden, on June 26-27, 2000.
49. The 2nd Conference on Numerical Analysis and Applications, June 11-15, 2000, Rousse, Bulgaria. PARA2000, International Workshop on Parallel Computing, Bergen, June 2000.
50. Sixth copper mountain conference on iterative methods, 3-7 APRIL 2000, University of Colorado, USA.
51. The Sixth Meeting of the Nordic Section of the Mathematical Programming Society (Nordic MPS'99), Mälardalen University, Västerås, Sweden September 25-26, 1999.
52. European Conference on Parallel Computing, 1999 (Euro-Par99), August 31--September 3, 1999.
53. The 1999 International Conference on Preconditioning Techniques for Large Sparse Matrix Problems in Industrial Applications (Sparse'99), Minneapolis, Minnesota, USA, June 10-12, 1999.
54. 2nd Workshop on Large-Scale Scientific Computations (WLSSC'99), June 2-6, 1999, Sozopol, Bulgaria.
55. The 6th SIAM Conference on Optimization (SIAM OPT99), May 10-12, 1999, Atlanta, Georgia.
56. The Workshop on High Performance Computing in Optimization, Netherlands, 1997.
57. The 9th Nordic Workshop on Programming theory" in Estonia, 1997.
58. Symposium on High Performance Computing at Department of Informatics, University of Bergen, Norway, 1997.
59. Norwegian Numerical Conference (NNM97), Bergen, 1997

31. Referees

- Prof. FIB Kayanja, Vice-Chancellor, Mbarara University of Science and Technology, www.must.ac.ug, vc@must.ac.ug, +256752985570.
- Prof. J.H. Pen-Mogi Nyeko, Vice-Chancellor, Gulu University, www.gu.ac.ug, vc@gu.ac.ug, panyeko@parliament.go.ug
- Prof. Mary J Okwakol, Vice-Chancellor, Busitema University, +256772409735.
- AB K Kasozi, Executive Director, National Council for Higher Education, Uganda, +256 772438966. abkkasozi@yahoo.com
- Hon Gabriel Opio, Minister of Gender, Labour and Social Affairs, Government of Uganda.
- Hon Hope Mwesigye, Minister of Agriculture and Fisheries, Government of Uganda.
- Prof. Theo van der Weide, tvdw@cs.ru.nl, Voice +31-24-365 33 61, Visit address: Room 02.078, Heyendaalseweg 135, 6525 AJ Nijmegen, The Netherlands, Post address: PO Box 9010, 6500 ED Nijmegen, The Netherlands

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- Prof. Joseph Migga Kizza, Department of Computer Science, College of Engineering and Computer Science, The University of Tennessee-Chattanooga, Chattanooga, Tennessee, 37403; Tel: 1-423-425-4043; Fax: 1-423-425-5229; <http://www.utc.edu/~jkizza/>, e-mail: joseph-kizza@utc.edu
- Prof. Ravi Nath, Chair, Department of Information Systems and Technology, Professor of Information Systems & Technology, Creighton University, USA, Eppley Building BA 212E, Work Phone: (402)280-2439, Fax: (402)280-2172 Email Address: rnath@creighton.edu, Website: <http://ecommerce.creighton.edu/nath/>
- Prof. Anthony J. Rodrigues, School of Computing and Informatics, University of Nairobi P.O. Box 30197, Nairobi 00100, Kenya, Tel: (254)-2-4444919, Fax: (254)-2-4447870, E-mail: tonyr@uonbi.ac.ke
- Professor Andrew Vince, Department of Mathematics University of Florida 474 Little Hall Gainesville, FL 32611-8105 PHONE: (352) 392-0281 ext.246 Fax:(352) 392-8357 E-mail: vince@math.ufl.edu
- Associate Professor, Khalid Azim Mughal, Department of Informatics, University of Bergen, P. O. Box 7800, 5020 Bergen, Norway; Phone: +4755584152, Fax: +4755584199, E-mail: khalid@ii.uib.no
- Mr. Patrick Bitature, Chairman Simba Group of Companies, Uganda, patrick@simbatelecom.com
- Mr. Mbire, Chairman MTN –Uganda, Charles@mbire.com

32. Languages Spoken

Fluent in English and Lunyankole
Not very fluent in Luganda

33. Politics

He has a lot of passion for politics having participated in Parliamentary elections of 2001 as a candidate for Ibanda South Constituency, Ibanda District, Uganda. He plans to join active politics in future.

He believes that he can be part of the Leadership that can:

- Consolidate democracy and constitutional governance in Uganda;
- Consolidate national unity and cultivate a culture of national identity;
- Uphold and support the National Constitution and build conditions in which unity and human rights are observed;
- Promote good economic management that shall guarantee both Macro and Micro economic stability;
- Observe, respect and uphold the political, economic, social and religious freedoms of the people of Uganda;
- Develop socio-economic infrastructure and amenities and ensure balanced regional development;
- Fight corruption; foster pluralism and promote political tolerance;
- Preserve and develop our culture;
- Promote, establish and maintain good relations between Uganda and other states/nations;
- Support social, economic and political integration within Africa;
- Promote the private sector within the framework of a market driven economy;
- Create employment, widen the tax base and develop infrastructure;
- Promote gender balance and fair treatment of all marginalized groups;
- Develop policies that promote agricultural, industrial, technological and scientific development; encourage and promote proper nutrition through mass education of the people;
- Develop environmental protection policies that will be sustainable to meet present and future generations of Ugandans;

- Participate in and join international and regional organisations that stand for peace and for the well being and progress of Ugandans;
- Develop policies that promote practical and skills oriented education and ensure that there are appropriate education institutions with the necessary infrastructure to offer quality education at all levels;
- Ensure that all Ugandans get access to medical and health care; undertake any other lawful activity that leads to a better and progressive Uganda.

Give me where to stand, and I will move the earth. Archimedes (287-212 B.C).

END.