

ADEWALE ROLAND TUNDE SOLARIN

1 INTRODUCTION

ADEWALE SOLARIN, Director, National Mathematical Centre, Abuja and a Professor of Mathematics until his appointment on 31st March, 2013, was the Dean, School of Mathematical Studies; Coordinator, Tertiary Institutions Students Mathematics Competitions; Principal Trainer, Nigerian Team for International Mathematics Olympiads; Coordinator, Mental Mathematics for Basic Education Programme; all at the National Mathematical Centre, Abuja, Nigeria. At the University of Agriculture, Abeokuta, Nigeria, he was Deputy Vice – Chancellor (Dec. 2004 to Dec. 2006), a member of the Governing Council of (2000-2006); Director, Academic Planning, (2000-2004); Head, Department of Mathematical Sciences, University of Agriculture, Abeokuta, Ogun State, Nigeria (1997-2000). He was the brain behind the creation of the Centre for Human Resources Development (CENHURD), which became the highest IGR point in the University.

Adeiwale, with background in Statistics and a Ph. D. in Mathematics, has for 37 years taught various undergraduate and postgraduate courses in Mathematics, Statistics and Computer Science, in the university system in Nigeria and outside the country.

He was one of the prime movers of the inauguration of the Quality Control Society of Nigeria (QCSON) in 1990. Consequently, he became the foundation National President of the Society in 1990, a position he held till December 1994.

2 TRAINING AND CONSULTING EXPERIENCE

Adeiwale, a Quality and Productivity Improvement Consultant, had his first encounter with Quality Control in 1978 and Total Quality Management (TQM) in 1989.

Since then, he has participated in national and international conferences, seminars and workshops on Quality Control, Total Quality Management, Productivity Improvement and related topics. These were organised Standards Organisation of Nigeria (SON); National Productivity Centre (NPC); Federal Ministry of Commerce and Tourism and Nigerian Export Promotion Council (NEPC) to mention but a few. His participation was in various capacities, including Facilitator, Guest Speaker, Coordinator and Convener.

Since 1991, he has been the Principal Consultant in TQM Implementations in many companies in Nigeria, including UACN Plc, which is ranked the biggest private conglomerate in Africa.

He has been Principal Facilitator to foremost consulting outfits on TQM in Nigeria to design and run workshops on topics including TQM for Managers; Training-The-Trainers in TQM; Building World-Class Customer-Oriented Culture in the Banking Industry to mention but a few.

Adewale was the Team Leader of the Inter-university Research Team on Quality Management (IRTQM). IRTQM was a university-based Team, involved in conducting research into TQM Implementation and Development in Nigeria. IRTQM was responsible for organising annual national and international conferences on TQM in Nigeria. These activities were carried out with support from many organisations in the private sector, including Chevron Nigeria Ltd; The Document Company - H. S. Xerox; Shell Development Company; and a host of others.

He played leading role in the design and execution of eight training-related activities for blue chip companies in Nigeria including: Bordpak Premier Packaging (BPP), Apapa (A division of UACN Plc) (1992-1996); Eagle Package Printing, Otta (1993-1995); Lion of Africa Insurance PLC; First Bank PLC (1994-1995); Vita Foam Nig. PLC (1999-2000) and Flour Mills Nig. PLC (2012).

3 COORDINATION OF INTERNATIONAL CONFERENCES AND WORKSHOPS

Adewale coordinated CTA Central and West Africa Anglophone Regional Training Course on Scientific Data Management for five years (2001-2006); He has organized the AMU – ICMS and Young African Mathematicians Medal Awards twice (UNAAB 2003, NMC 2009). He has also organized workshops numerous research workshops at NMC including, 2009 NMC-ANGAAD Workshop on Algebra Applied to Development; and 2010 London Mathematical Society-National Mathematical Centre Lectures on Banach Algebra.

4 CURRICULUM DEVELOPMENT AND IMPLEMENTATION

Adewale's first experience with curriculum development and implementation dated back to 1982, when he designed the B. Sc. Statistics programme of the Department of Mathematical Sciences, Olabisi Onabanjo University, Ago-Iwoye, Ogun State. Since then, he has coordinated the design of other thirteen curricula up to Ph.D. level.

5 DEVELOPMENT OF ACADEMIC DEPARTMENT/UNIT

Adewale assumed leadership of the Department of Mathematical Science, University of Agriculture, Abeokuta, in September 1997, with 10 academic staff including 2 Ph.D.s, majority were Assistant Lecturers. He developed appropriate postgraduate programmes to train the staff members. The Department grew to up to 30 academic staff, including 2 professors, 3 of the initial staff who were Assistant Lecturers have risen to the professorial cadre and one is a full professor. The Department was split into three Departments in 2004, and the three still received full accreditation in the 2005 NUC accreditation exercises.

Adewale was appointed Director of the Academic Planning Unit, University of Agriculture, Abeokuta, in March 2000. He was able to strategically place the Unit as the hub of academic activities in the University and the originator of most academic innovations in the system. The innovations made by the Unit included the

transformation of the lecture rooms from the use of chalk and blackboards to markers and whiteboards and a study which drastically reduced examination materials consumption by more than 50%, saving the University millions of naira per semester.

He assumed office as Deputy Vice-Chancellor in December, 2004; apart from ensuring that all relevant committees meet regularly, he also introduced the quarterly meeting of Deans and their Heads of departments with the Deputy Vice-Chancellor. This meeting created avenue for interactions between Management and the academic departments. At this forum, issues were discussed before they degenerated into serious problems. He made the office more accessible to staff making communication between staff and Management smoother, thereby reducing tension in the system.

School of Mathematical Studies (SMS), National Mathematical Centre, Abuja

He assumed office as the Dean in August, 2008. He introduced National Mathematics Competitions for tertiary institutions. The annual National Mathematics Competition for Undergraduate Student (NAMCUS) has had fourth edition in 2012, while the annual National Mathematics Competitions for Polytechnics and Colleges of Education (NAMCPS/NAMCCES) has had second edition in 2012; they are a major part of the activities for **2012 Nigerian Year of Mathematics celebration**.

He introduced training strategies that led the Nigerian IMO team winning their first medal in 2010. This has also led to the establishment of the **NMC International Science Academy** to provide a critical mass for the Nigerian Olympiad Teams. SMS has been spearheading the Mental Arithmetic Programme.

6 COMPUTER SCIENCE EXPERIENCE

Adewale was one of the first few Nigerians to offer a course in Computer programming in 1972 at the former University of Ife, Ile-Ife, Nigeria. He developed the knowledge of programming to the point of being able to use FORTRAN for algebraic programming in his Ph. D. thesis.

He has worked with GAP, UNIX, MS-DOS, Windows, FORTRAN, BASIC languages, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, SPSS, INTERNET etc. He has successfully supervised or co-supervised many M.Sc. and Ph.D. theses in Computer Science.

7 RESEARCH AND PUBLICATIONS

Adewale wrote an M. Sc. thesis in Statistics and a Ph. D. thesis in Mathematics. He has supervised student theses (B. Sc., M. Sc., Ph. D., PGD, MBA, and MBF) in topics in Mathematics, Statistics, Quality Control, Computer Science, and Business Management in Nigeria and abroad.

He has published more than 38 papers in statistics and mathematics in internationally reputable journals. He has written more than 20 papers on Total Quality Management and related topics for journals, seminars, workshops and conferences.

He has supervised or co-supervised more than 50 postgraduate theses, including 12 PhDs, four (4) of them have attained professorial cadre, with one (1) full professor.

8 EXTERNAL EXAMINATION SERVICES

Adewale has served as external examiner to Universities in Nigeria and abroad for undergraduate and postgraduate programme including examination of Ph.D. theses. He was an external examiner in the Department of Mathematics, University of Dar-Es-Salaam, Dar-Es-Salaam, Tanzania (2004-2006) and Department of Mathematics, Makerere University, Kampala, Uganda (2006-2008). Department of Mathematics, University For Development Studies, Navrongo, Ghana (2011).

9 ACCREDITATION EXERCISES:

He has served as chairman of many Science accreditation teams of the National Universities Commission for academic programmes. He has also served as chairman of NUC team for institutional accreditation of Universities.

10 AWARDS AND RECOGNITIONS

Adewale had his undergraduate studies with Federal Government Scholarship. His M. Sc. and Ph. D. degrees were undertaken with the University of Ife scholarship. He bagged the first Ph. D. (Mathematics) awarded by Obafemi Awolowo University, Nigeria.

He has enjoyed a number of international scholarships and fellowships including:

Italian Foreign Affairs Fellowships (1980, 1981, 1983);

International mathematical Union (IMU) - ICM-90 Scholar, Kyoto, Japan.

Deutscher Akademischer Austauschdienst (DAAD) - German Academic Exchange Award - for Senior Academics - 1996.

In 1993, Adewale received a letter of commendation from the Head of State of the Federal Republic of Nigeria, for drawing a programme for achieving National Excellence using TQM principles and philosophy.

In 1999, he delivered the 9th University of Agriculture Abeokuta Inaugural Lecture titled: **TOTAL QUALITY – A MATHEMATICAL PANACEA FOR NATIONAL PRODUCTIVITY IMPROVEMENT.**

Adewale R. T. Solarin,

Professor of Mathematics and Dean School of Mathematical Studies,

National Mathematical Centre, Abuja.

CURRICULUM VITAE

1.0 PERSONAL DATA

- 1.1 NAME: **SOLARIN ADEWALE ROLAND TUNDE**
Surname Names
- 1.2 DATE OF BIRTH: APRIL 5, 1954
- 1.3 PLACE OF BIRTH: SAGAMU, OGUN STATE, NIGERIA
- 1.4 NATIONALITY: NIGERIAN
- 1.5 MARITAL STATUS: MARRIED
- 1.6 NO. OF CHILDREN: THREE (31 YEARS, 29 YEARS, 22 YEARS)
- 1.7 HOME ADDRESS: 2A, Layi Balogun Road, GRA Ibara, Abeokuta.
- 1.8 POSTAL ADDRESS: Acting Director, National Mathematical Centre,
Kaduna-Lokoja Road, Kwali, Abuja, FCT, Nigeria. E-
mail:asolarin2002@yahoo.com
- 1.9 PRESENT EMPLOYER: National Mathematical Centre, Abuja, Nigeria
- 1.10 PRESENT POSITION: Director, National Mathematical Centre, Abuja.

2.0 EDUCATION

2.1 INSTITUTIONS ATTENDED (with dates):

- 2.1.1 Obafemi Awolowo University 1981-1987 -- Ph. D.
(formerly University of Ife) Ile-Ife, Nigeria. 1976-1978 -- M. Sc.
1971-1975 -- B. Sc.
- 2.1.2 Mayflower School, Ikenne, Nigeria. 1966-1970 -- WASC

2.2 ACADEMIC AND PROFESSIONAL QUALIFICATIONS (with dates)

- 2.2.1 Ph. D (Mathematics) 1987
- 2.2.2 M. Sc. (Mathematics) 1978
- 2.2.3. B. Sc. (Mathematics) 1975
(Second Class Upper Division)

2.3. SCHOLARSHIP / AWARDS / PRIZES:

- 2.3.0 Golden Jubilee Honors Award,
Mayflower School, Ikenne 2006
- 2.3.1 African Millennium Mathematics Initiative Fellowship 2006
- 2.3.2 Association of African Universities Fellowship 2005
- 2.3.3 African Mathematical Union Fellowship 2003

- 2.3.4 Deutscher Akademischer Austauschdienst (DAAD) 1996
- 2.3.5 International Mathematical Union (IMU) ICM-90
Scholar - Kyoto, Japan 1990
- 2.3.6 Italian Foreign Affairs Fellowships 1980 -1983
- 2.3.7 Obafemi Awolowo University Scholarship 1976-1978 &
(For postgraduate studies: M. Sc. & Ph. D) 1981-1987
- 2.3.8 Federal Government of Nigeria 1972-1975
Scholarship Award for B. Sc. Mathematics

3.0 MEMBERSHIP OF PROFESSIONAL ORGANISATIONS:

- 3.1. Quality Control Society of Nigeria (QCSON) - Life Member;
- 3.2. Nigerian Mathematical Society (NMS);
- 3.3. Science Association of Nigeria (SAN);
- 3.4. Mathematical Association of Nigeria (MAN);
- 3.5. American Mathematical Society (AMS).

4.0. WORK EXPERIENCE/APPOINTMENTS (with dates):

4.1 POST	EMPLOYERS	PERIOD
4.1.1 Director	N.M.C, Abuja	31 st March, 2013 to date.
4.1.2 Dean & Professor	N.M.C, Abuja	Aug 2008 – 30 th March, 2013
4.1.3 Deputy Vice-Chancellor	University of Agriculture, Abeokuta	Dec. 2004 - Dec 2006.
4.1.4 Director	Academic Planning Unit, University of Agriculture, Abeokuta	Mar. 2000-Dec. 2004
4.1.5 Professor & Head Dept. of Mathematical Sciences.	University of Agriculture, Abeokuta, Nigeria.	Sept.1997–Feb. 2000
4.1.6 Reader	Obafemi Awolowo University, Ile-Ife, Nigeria.	Oct. 1989 - Sept. 1997
4.1.7 Snr. Lecturer.	Obafemi Awolowo University, Ile-Ife, Nigeria	Oct. 1986 - Sept. 1989
4.1.8 Lecturer I	Obafemi Awolowo University, Ile-Ife, Nigeria.	Oct. 1983 - Sept. 1986
4.1.9 Lecturer II	Obafemi Awolowo University, Ile-Ife, Nigeria.	Oct. 1981 - Sept. 1983
4.1.10 Asst Lect.	Obafemi Awolowo University, Ile-Ife, Nigeria.	Mar. 1979 - Sept. 1981

4.1.11 Grad. Asst.

Obafemi Awolowo
University, Ile-Ife,
Nigeria.

Sept.1976 - Mar. 1979

4.2. Undergraduate Courses Taught

Elementary Mathematics; Mathematical Methods; Statistics; Probability Distributions; Stochastic Processes; Statistical Quality Control; Design of Experiment; Linear Algebra; Galois Theory; Commutative Algebra; Operation Research; Data Structure and Algorithm; Operating System; Automata theory;

4.3 Postgraduate Courses Taught

Commutative Algebra; Non-associative algebra; Statistical Decision Theory; Design of Experiments; Advanced Operation Research, Topics in Computer Science, Quantitative Methods for Managers, Research Methods, and Numerical Analysis.

4.4 Postgraduate Theses Supervision

4.4.1 Major Supervision

Doctorate Degree, Ph. D

(1) Chiboka V. (Mrs.), (Ph. D) "The Construction and Study of Properties of Finite Order G-loops". 1990.

Present status: Professor of Mathematics

(2) Adeniran Olusola John, (Ph. D), "The study of Certain Loop via their Bryant-Schneider groups" (2002).

Present status: Associate Professor of Mathematics

(3) Agboola Adesina Abdul Akeem, (Ph. D), "Fuzzification of algebraic Structures". (2002);

Present status: Associate Professor of Mathematics

(4) Mojekwu Joseph Nnamdi, PG/98/0073 (Ph. D), "Modelling life-Insurance Tables on Mortality Patterns of Insured Nigerians". (2002).

Present status: Associate Professor of Actuarial Science

(5) Akinleye Simon Ayoola., (Ph. D)"A study of Bol Algebra of Quaternion Type" (2005).

Present status: Lecturer I in Mathematics

(6) Omeike Matthew Omonigho, (Ph. D) "Qualitative Study of Solution of Certain N-System of Third Order Non-Linear O.D.E." (2005)

Present status: Senior lecturer in Mathematics

(7) Talabi O., (Ph. D) "An Analytical Solution of Navier-Stokes Equation Based on the Physical Symmetric Past an Obstacle". (2005).

Present status: Assistant professor in Mathematics (USA)

- (8) Agwuegbo, S. O. N. Hierarchical Model for the Analysis of Large Dimensional State Space (2010).

Present status: Senior lecturer in Mathematics

4.4.2 Co- Supervision

Doctorate Degree (Ph.D.)

- (9) Folorunso O., A Framework for Visualizing Runtime Characteristics of Real-Time Database System. (Ph. D)(2003).

Present Position: Senior Lecturer

- (10) Sodiya A.S., A New Combine Strategy to Intrusion Detection. (Ph.D) (2004).

Present Position: Senior Lecturer

- (11) Akanbi M.A., Numerical Solution of Initial Value Problems in Differential Algebraic Equations. (Ph. D) (2005).

Present Position: Senior Lecturer

- (12) Adewole A.P., A Visualization Approach to Graph Layout Problem. (Ph.D) (2005).

Present Position: Senior Lecturer

- (13) Vincent U.E. Dynamical Behaviour and Synchronization of Chaos in Coupled Nonlinear Oscillators. Won the 2nd Young African Medal Award 2009.

Present Position: Senior Lecturer

- (14) Ekpo U. F. Epidemiological Studies on Urinary Schistosomiasis in Ogun State: Rapid assessment of Risk using Geographical Information System (GIS) and Satellite Imagery. (2005).

Present Position: Senior Lecturer

4.4.3 Masters of Science

Major Supervision

- (15) Omole F.T., (M. Sc.) "A Generalisation of the Aktivis Identity". (1997).

- (16) Adeniran Olusola John, (M. Sc.) "On Generalised Bol Loop Identity and related Loop Identities".(1997).

- (17) Ajayi Olutayo Bamidele, (M. Sc.), "A Cryptographic Multilingual Electronic Mail User Agent: A Close Look at Quality Assurance and Security Critical Algorithm" (2002).

- (18) Adegunle A.D., (M. Sc.), "Improving Data Transport Performance Over wireless Networks". (2003).

- (19) Dawodu Ganiyu Abayomi, (M. Sc.), "On Techniques of Multiple Imputation and Enhancement of SolasTM". (2004).

- (20) Ibrahim Saidat Adebukola (M. Sc.), "An Efficient Pattern Growtaming of closed frequent Item sets". (2004).

- (21) Adedayo Oluranti Aderenle, (M. Sc.), "Optimal Stratetgies in Two-person Zero-sum Stochastic Games with Discrete State Space". (2004).

- (22) Bandabla T., (M. Sc.) "Comparative Study of Statistical Distribution of efficiency of some Poverty Estimators in Ibadan North-East Local Government Area, Oyo State, Nigeria". (2005).
- (23) Adedoyin M.B., (M. Sc.) "Comparative Analysis of Gynotype by Environment Interaction Models in Cowpea Variety Trials". (2005).

4.4.4 Co-Supervision

Masters of Science.

- (24) Ayo K. C., (M. Sc.) "Computer - Based Quality Control analysis".(1992).
- (25) Adekoya A.F., A Model for Optimizing Dynamic Storage Allocation in Distributed Database System. (M. Sc.)(2002).
- (26) Ebendiele E.P., Qualitative Properties of Solution for a Class of Third Order Non-Linear D.E. (M. Sc.)(2003).
- (27) Agholor S., Design of Computer-Based Integrated Forecasting Model. (M. Sc.)(2004).
- (28) Akinyemi Ibidapo Olawole, (M. Sc.), "A Genetic Algorithm Based Classification for Credit Risk Assessment Problems". (2004).

4.4.5 Masters of Business Finance

Major Supervision

- (29) Nwanze Christopher Nnabuife, (MBF) "Analysis of Lending Performance of Commercial Banks in Nigeria – A Case Study of UBA." (1999).
- (30) Ekweozor Chijioke O, (MBF), "The Impact of Internal Control System on the Management of Business Enterprises". (1999).
- (31) Oduntan Sunday Lawrence, (MBF), "Commercial Bank in Nigeria – An Appraisal of the Rural Scheme." (1999).

4.4.6 Masters of Business Administration

- (32) Makinde Samuel Olugbenga, (MBA) "A Markorian Analysis of Credit Administration in Nigerian Commercial Banks – Case Studies of Union, Zenith and STB." (2000).
- (33) Arike Adunola Agbaniyaka, (MBA), "Strategies for Effective Customer Delivery in the Banking Industry – A Study of Five Banks in Lagos". (2000).
- (34) Anyalechi Ndubuisi Emmanuel, (MBA in Finance) "An Appraisal of the Distribution System for Domestic Cooking Gas (LNG) in Nigeria – A Case Study of Abia State." (2001).
- (35) Folorunso Olusegun, (MBA) "The Turnaround of Banking Industry with E-Commerce in Nigeria". (2001).
- (36) Akinlotan Sunday Oluwagbemiga, (MBA) "Consumer Perception of Advertising – A Case Study of Midland Galvanizing Product Limited." (2001).
- (37) Ojemen Gregory, (MBA) "A Study of Restructuring and Re-engineering as a Survival and Growth Strategy – The Experience of Guinness Nigeria PLC." (2001).
- (38) Chukwudozie Chidi Amala, (MBA), "Management of Working Capital in Some Selected Small Scale Industries in Lagos State." (2001).

- (39) Ogwude Laurretta N. (Mrs.), (MBA), "Workers' Perception of the Effects of Annual Appraisal Exercise on their Performance – A Survey of Eight Federal and State Establishment in Lagos Metropolis." (2001).
- (40) Ifekpolugo Susan Azuka, (MBA), "The Effect of Efficient Materials Management on Production Costs – A Case Study of Nigerian Bottling Company PLC". (2001).
- (41) Banjo Omolola Thereza, (MBA), "The Effect of Motivation on Workers Performance – A Case Study of UNAAB". (2002).
- (42) Akinbo Ajasa Moshood, (MBA), "The Effectiveness of Money as a Motivational Tool in Human Resources Management in Nigeria – A Case Study of F.C.E. Abeokuta, Nigeria". (2002).
- (43) Oyekanmi Oluremi Omowale, (MBA), "Budgeting and Planning as a tool for Effective Management Control in a Governmental Organisation – A Case Study of UNAAB". (2002).
- (44) Okupe Noyelum, FSS/99/00/LC/36570 (MBA), "Organisational Climate and its Relationship to Job Satisfaction in the Private and Public Sectors". June 2002.

4.4.7 Postgraduate Diploma

- (45) Jooda Babatunde, (PGD), "TQM Implementation in the Bursary Department of UNAAB". (2000).
- (46) Olurotimi Thompson Daramola, (PGD), "Procedure for the Full Implementation of TQM in the Registry of UNAAB". (2000).
- (47) Oyeneye Oluranti Anthony, (PGD), "Total Quality Management Implementation (Health Services, UNAAB)" (2000).
- (48) Sogaolu Oluwambe Reuben, (PGD), "Right the First Time Concept and Application at the Works Department of UNAAB". (2000).
- (49) Agbonlahor Mure Uhunamure, (PGD), "Computer-Based Decision – The GIS Application". (2000).
- (50) Alex A Akala, (PGD), "Computer Package on the Optimization of Transport Problem". (2002).

4.5 Consultancy Experience:

- 4.5.1 Total Quality Management (TQM) Implementation at Bordpak Premier Packaging (BPP), (a division of UACN Plc, Nigeria).
- 4.5.2 Total Quality Management Implementation at Eagle Package Printing (EPP).
- 4.5.3. ISO 9000 Series Certification in Vitafoam Nigeria Plc.

5.0. ADMINSTRATIVE EXPERIENCE/APPOINTMENTS

5.1 WITHIN THE UNIVERSITY SYSTEM (UNAAB):

- (i) Staff adviser to Many Student Organisations on Campus
- (ii) Head, Department of Mathematical Sciences. UNAAB (1997-2000)
- (iii) Director, Academic Planning Unit UNAAB (2000-2004)
- (iv) Member of the Governing Council of University of Agriculture,

- Abeokuta, Nigeria (August, 2000 to 2006).
- (v) Member, University Senate UNAAB (1997 to 2008)
 - (vi) Member, Committee of Deans and Directors UNAAB (2000-2004)
 - (vii) Deputy-Vice-Chancellor UNAAB (2004 to 2006)
 - (viii) Chairman, Farm Development Board, UNAAB
 - (ix) Chairman, Curriculum Committee, UNAAB
 - (x) Chairman, Equipment Maintenance Management Committee. UNAAB.
 - (xi) Chairman, Computer Management Committee, UNAAB.
 - (xii) Chairman, Library Committee, UNAAB
 - (xiii) Chairman, Health Services Management Committee, UNAAB.
 - (xiv) Chairman, UNAAB Staff School Board, UNAAB.
 - (xv) Chairman, Management Committee on Fish Project, UNAAB.
 - (xvi) Chairman, Vehicle Refurbishment Committee, UNAAB
 - (xvii) Chairman, Maintenance Services Committee, UNAAB
 - (xviii) Chairman, Excess Work-Load Committee, UNAAB
 - (xix) Chairman, Security Committee, UNAAB.
 - (xx) Chairman, Cashew Programme implementation Committee (CAPIC), UNAAB.
 - (xxi) Chairman, Local Organisation Committee of AVCNU, UNAAB.
 - (xxii) Chairman, Memorandum of Understanding between UNAAB and Leventis Foundation.
 - (xxiii) Chairman, Memorandum of Understanding between UNAAB and Crescent University.
 - (xxiv) Chairman, Committee on Telecommunication Projects, UNAAB.
 - (xxv) Chairman, Meeting of Colleges with the Deputy Vice-Chancellor.
 - (xxvi) Vice-Chairman, Works & Payments Management Committee, UNAAB.
 - (xxvii) Vice-Chairman, Minor Works Committee, UNAAB.
 - (xxviii) Vice-Chairman, Honorary Degrees Committee, UNAAB.
 - (xxix) Member, College of Board of Studies of COLNAS 1997 to 2008
 - (xxx) Member, College Board of COLNAS 1997 to 2008
 - (xxxi) Member, College Review Panel of COLNAS 1997 to 2008
 - (xxxii) Member, College Review Panel of COLAMRUCS 2000-2004
 - (xxxiii) Science Editor, ASSET 2000-2004
 - (xxxiv) Ex-officio, ASUU-UNAAB Multi-Purpose Co-operative Society.

WITHIN THE UNIVERSITY SYSTEM CONT'D (NMC, ABUJA):

- (xxxv) Acting Director, (June, 2012 to date)
- (xxxvi) Dean, School of Mathematical Studies (2008 to 2012);
- (xxxvii) Member, Academic Board (2008 to date);
- (xxxviii) Member, Tenders Board (2008 to date);
- (xxxix) Member, Management Committee (2008 to date);
- (xl) Member, Development Committee (2009 to date);
- (xli) Member, Appointments and Promotions Committee (2008 to date);
- (xlii) Principal Trainer, Nigerian Mathematics Olympiads Team (2008 to date);

- (xliii) Member, NMCIMSA Board (2011 to date);
- (xliv) Chairman, NMCIMSA Implementation Committee (2011 to 2012);
- (xliv) Coordinator, Annual Tertiary Institutions Mathematics Competitions (2008 to date);
- (xlvi) Coordinator, Mental Mathematics Project (2009 to date);

5.1.1 CONTRIBUTION TO DEVELOPMENT OF ACADEMIC DEPARTMENT/UNITS

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I introduced training strategies that led the Nigerian IMO team winning their first medal in 2010. This has also led to the establishment of the **NMC International Science Academy** to provide a critical mass for the Nigerian Olympiad Teams. SMS has been spearheading the Mental Arithmetic Programme.

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My first experience with curriculum development and implementation dated back to 1982, when I designed the B. Sc. Statistics programme of the Department of

Mathematical Sciences, Olabisi Onabanjo University, Ago-Iwoye, Ogun State. Since then, I have been mainly responsible for the design of the following curricula:

- (1) B. Sc. Mathematical Sciences Programme, Ladoke Akintola University, Ogbomoso (1990);
- (2) Postgraduate Diploma Programme in Quality Management, University of Agriculture, Abeokuta (1997);
- (3) Postgraduate Diploma Programme in Planning, Research And Statistics, University of Agriculture, Abeokuta (1997);
- (4) Postgraduate Diploma Programme in Computer Science, University of Agriculture, Abeokuta (1997).
- (5) Postgraduate Diploma Programme in Statistics, University of Agriculture, Abeokuta (1997);
- (6) M. Sc. Degree Programme in Mathematics, University of Agriculture, Abeokuta (1997);
- (7) M. Sc. Degree Programme in Statistics, University of Agriculture, Abeokuta (1997);
- (8) M. Sc. Degree Programme in Demography, University of Agriculture, Abeokuta (1997);
- (9) M. Sc. Degree Programme in Computer Science, University of Agriculture, Abeokuta (1997);
- (10) Ph.D. Degree Programme in Mathematics, University of Agriculture, Abeokuta (1997);
- (11) Ph.D. Degree Programme in Statistics, University of Agriculture, Abeokuta (1997);
- (12) Ph.D. Degree Programme in Demography, University of Agriculture, Abeokuta (1997);
- (13) Ph.D. Degree Programme in Computer Science, University of Agriculture, Abeokuta (1997);

5.2 OUTSIDE THE UNIVERSITY SYSTEM

- (i) Chairman of many science accreditation teams of the National Universities Commission for academic programmes (2002 to date)..
- (ii) Chairman of an NUC team for institutional accreditation of universities (2011).
- (iii) A member of the Board of Trustees of the Council of Small Scale Associations of Nigeria (2002 to 2007).
- (iv) Pastoring a church (January 1998 to date)
- (v) Ogun State Committee on Agriculture (2003 to 2007);
- (vi) A member of National Committee on Mathematical Olympiad (2005 to date);
- (vii) A member of Pan-African Mathematical Olympiad Commission (2004 to date).
- (viii) General Overseer, International Academy For The Gifted LTD/GTE Gifted Camps (2008 to 2012).
- (ix) Chairman, Board of Trustee, International Academy For The Gifted LTD/GTE Gifted Camps (2008 to 2012)

5.3 Coordinator/Convener of International Conferences/Seminar/Workshops

1. Chairman, Scientific Committee, International Conference of Mathematical Sciences, African Mathematical Union (AMU), UNAAB (2003).
2. Chairman, LOC, African Mathematics Union Olympiad Symposium, April, 2005.
3. Coordinator, CTA-UNAAB Scientific Data Management Course (2001-2006).
4. Convener, NMC-ANGAAD-AMU 2009 Workshop and Conference 30th November – 12th December, 2009.
5. Coordinator, National Mathematics Competitions for Ungergraduates (NAMCUS) (2008 to date).
6. Coordinator, Capacity Building Workshop for Algebra Lecturers in Tertiary Institutions in Nigeria (2010);
7. Chairman, LOC, National Workshop on Banach Algebra (2010).

6.0 PUBLICATIONS:

6.1 THESES:

- 6.1.1 M. Sc. (Thesis): On Efficient Estimation of Functions of Markov Chain (1978).
- 6.1.2 Ph. D. (Thesis): Classification of Bol Loops of Small Orders. (1987)

6.2 PUBLISHED ARTICLES:

- (i) A. R. T. Solarin and B. L. Sharma: On the construction of Bol loops. (Ann STT uni.'Al. I. CUZA' lasi Sect. Math. xxvii, 1a, pp 13-17, 1981)
- (ii) A. R. T. Solarin: On the play-the winner rule in clinical trials. (Bull. Math. Soc. Sci. Romannie Tome 26(74) nr4,1982).
- (iii) A. R. T. Solarin and B. L. Sharma: On Bol loops of order 12. (Ann STT uni.'Al. I. CUZA' lasi Sect. Math. xxvix, f2, 1a, pp 68-80, 1983)
- (iv) A. R. T. Solarin and B. L. Sharma: On the construction of Bol loops II. (Ann STT uni.'Al. I. CUZA' lasi Sect. Math. xxx, f2, 1a, pp7-12,1984)
- (v) A. R. T. Solarin and B. L. Sharma: Addendum: On the construction of Bol loops. (Ann STT uni.'Al. I. CUZA' lasi Sect. Math. xxx, f2, 1a, pp 13-14, 1981)
- (vi) A. R. T. Solarin and B. L. Sharma: On Bol loops of order 16 (I). (Kyungpook Math Jour. Vol 24, No. 1, pp 69-91, 1984)
- (vii) A. R. T. Solarin and B. L. Sharma: Some examples of Bol loops. (Acta Univ. Carolinae Mat et Phys. Vol. 25, No 1, pp 59-68, 1984).
- (viii) B. L. Sharma and A. R. T. Solarin: On finite Bol loops 2 of order 2p. (Simon Stevin Quart Jour. Pure and Applied math. Vol. 60, No. 2, pp 133-156, 1986).
- (ix) B. L. Sharma and A. R. T. Solarin: On the classification of Bol loops of order 3p. (Communications in Algebra, 16 (1), pp 37-55, 1988).
- (x) A. R. T. Solarin: On the identities of Bol-Moufang type. (Kyungpook Math. Jour. 28(1), pp 51-62, 1988).

- (xi) A. R. T. Solarin and B. L. Sharma: On Bol loops of order 16 with 13 elements of order 2, and with 14 elements of order 4. (Proc. Nat. Acad. Sci. India, 57(A), IV, pp 546-556, 1987).
- (xii) V. S. Ramamurthi and A. R. T. Solarin: On finite RC-loops. (Publ. Mat. Debreceen tomus 35, pp 261-264, 1988).
- (xiii) A. R. T. Solarin: A short note on Bol algebra. (Riv. Mat. Pura ed App. No. 8, pp 7-11, 1991).
- (xiv) V. O. Chiboka and A. R. T. Solarin: Holomorphs of conjugacy closed loops. (Ann STT uni.'Al. I. CUZA' Iasi Sect. Math. 37,f3, pp 277-284, 1991).
- (xv) V. O Chiboka and A. R. T. Solarin: On G-loops of order pq . (Cienc. Tecn. 15, no. 1-2, pp 59-63, 1992).
- (xvi) V. O. Chiboka and A. R. T. Solarin: Bol loops of order $4pq$. (Cienc. Tecn. 15, no. 1-2, pp 59-63, 1992).
- (xvii) V. O. Chiboka and A. R. T. Solarin: Autotopism Characterisation o G-loops. (Ann STT uni.'Al. I. CUZA' Iasi Sect. Math. 39, No 1, pp 19-26, 1993).
- (xviii) A. R. T. Solarin and V. O. Chiboka: A note on G-loops. (Kragujevac. No. 17, pp 17-26, 1995).
- (xix) A. R. T. Solarin: On brackets and identities of Lie loops. (Kragujevac. No. 17, pp 7-15, 1995).
- (xx) A. R. T. Solarin: On algebras of Bol-Moufang type. (Ann STT uni.'Al. I. CUZA' Iasi, Tomul XLI, s.I.a, Mat. 1995, f1).
- (xxi) A. R. T. Solarin: On certain Aktivis Algebra. (Italian Jour. Of Pure & Applied Math. N. 1 1997 pp 85-90).
- (xxii) A.R.T. Solarin, I.F. Omole & Adeniran: On Aktins Algebra of Bol Moufang Type (To Appear in Ann STT uni. "Al. I. CUZA" Iasi).
- (xxiii) J.O. Adeniran & A.R.T. Solarin: A note on Automorphic Inverse Property Loops. (Kragujevac, No. 20 pp 47-52, 1998).
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- (xxv) J. O. Adeniran & A. R. T. Solarin: A note on Automorphic inverse property loops. (Kragujevac. No. 20 pp 47-52, 1998).
- (xxvi) A. R. T. Solarin, J. O. Adeniran & S. A. Akinleye: A further generalisation of the Aktivis identities. (Int. Jour. Math.Sc. Vol. 1, pp 101- 107, 1999).
- (xxvii) J. O. Adeniran, E. O. Adeleke, A. A. A. Agboola, J. A. Oguntuase & A. R. T. Solarin: On quadratic loops of Bol-Mouffang Type. (Int. Jour. of Math. Sc. Vol. 1, pp 62-67, 1999).
- (xxviii) S. A. Akinleye & A. R. T. Solarin: On production planning problems with non-linear cost function. (Kragujevac No. 21, pp 67-78,1999).
- (xxix) Agboola A.A.A. and Solarin A.R.T., Some Properties of Vague groups, Proc. Jang Math. Soc. 4 (2002) 37 – 50.
- (xxx) Agboola A.A.A. and Solarin A.R.T. On Vague subgroups, Proc. Jang Math. Soc. 4 (2002) 51 – 57.
- (xxxi) Akinleye S.A. and Solarin A.R.T.: Algebra of Bol Loops and the Lie Identities, Proc. AMU – ICMS (2003), 267 – 280.

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(xxxiv) U.E. Vincent, A.N. Njah, O. Akinlade and A.R.T. Solarin (2004): Phase Synchronization of Coupled Hyper chaotic Duffing Oscillators. J. Nig. Assoc. Math. Phys. 8(1), (2004) 203 – 210 (© The Nigerian Association of Mathematical Physics).

(xxxv) U.E. Vincent, A.N. Njah, O. Akinlade and A.R.T. Solarin (2004): Phase Synchronization of Uni-directionally Coupled Chaotic Ratchets, Chaos: An Interdisciplinary J. Nonlinear Science. Vol. 14 Number 4, (2004) 1018 – 1025 (© American Institute of Physics).

(xxxvi) U.E. Vincent, A.N. Njah, O. Akinlade and A.R.T. Solarin (2005): Synchronization and Basin Metamorphosis in mutually coupled doffing oscillators.

(xxxvii) Vincent, U. E., Njah, A. N., Akinlade, O. and Solarin, A. R. T. (2005): Synchronization of cross-well chaos in coupled Duffing oscillators. Int. J. Modern Physics B **19**: 3205-3216.

(xxxviii) **Vincent, U. E.**, A. N. Njah, Akinlade, O. and Solarin, A. R. T. (2006): Synchronization of Chaos in Bi-directionally Coupled Ratchets. Physica A - Statistical Mechanics and its Applications **360**: 186– 196.

(xxxix) J. O. Adeniran, J. T. Akinmoyewa, A. R. T. Solarin and T. G. Jaiyeola (2010); On Some Algebraic Properties of Generalized Groups, Acta Mathematica Academiae Paedagogiae Nyiregyháziensis, Hungary. Vol. 27(1) 23-30.

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Communicated for Publication:

(xlii) T. G. Jaiyeola, J. O. Adeniran and A. R. T. Solarin. Some necessary conditions for the existence of a finite Osborn loop with trivial nucleus.

6.3 PAPERS ON TOTAL QUALITY MANAGEMENT (TQM), STATISTICAL QUALITY CONTROL (SQC) AND RELATED TOPICS.

(xlili) A. R. T. Solarin: Acceptance Sampling by Variables in Industries. (ATBU Workshop on Statistical Quality Control, 1989).

(xliv) A. R. T. Solarin: Total Quality Management. (Workshop on Quality Control, CRID-OAU, Ile-Ife, 1991).

(xlv) A. R. T. Solarin: Implementing Japanese company-wide Quality Control in Nigeria. (Workshop on Quality Control, CRID-OAU, Ile-Ife, 1991).

(xlvi) A. R. T. Solarin: Small-Medium Scale Enterprises in Japan. (Workshop on Quality Control, CRID-OAU, Ile-Ife, 1991).

(xlvii) A. R. T. Solarin: Experimental Designs in Industries. (Workshop on Quality Control, CRID-OAU, Ile-Ife, 1991).

(xlviii) A. R. T. Solarin: Quality Control and Productivity Improvement. (Workshop on Quality Control, CRID-OAU, Ile-Ife, 1991).

- (xlix) A. R. T. Solarin: The relevance of the Quality Control Society of Nigeria to national development. (SON World Quality Day Symposium, 1991).
- (l) A. R. T. Solarin: Total Quality Management in Mass-Transit Programme. (Seminar on Mass-Transit - Peoples' Bank and VIVICOM, 1991).
- (li) A. R. T. Solarin: The Role of Government in Setting, Monitoring and Enforcing Standards in Nigeria. (Conference on Quality Management and Survival of Nigerian Industries After EURO '92 Single Market, 1991).
- (lii) A. R. T. Solarin: Productivity Measurement. (National Productivity Centre Conference on Productivity and Wage Determination, 1991).
- (liii) A. R. T. Solarin: Quality Management in Export Processing Zone (EPZ). (Nigeria Export Promotion Council Seminar on EPZ, 1992).
- (liv) A. R. T. Solarin: Quality and Productivity Improvement in Service Industries. (Seminar on Statistical Techniques for Quality Management and Productivity Improvement in the Insurance Industries, 1992).
- (lv) A. R. T. Solarin and A. S. Ajiboye: Productivity: The Challenges of the 1990s. (National Productivity Day Celebration Seminar, 1992).
- (lvi) A. R. T. Solarin: Quality and Productivity Improvement. (SON Journal, vol. 1. No. 6. pp 14-18, 1992).
- (lvii) A. R. T. Solarin: Standardization of Products and Quality Control. (National Workshop on Entry into Export Market, NFBPW, 1992).
- (lviii) A. R. T. Solarin: Sustainable Export Market for Nigerian Finished Products: Quality Issues and Challenges. (National Seminar on Commerce and Tourism, Federal Ministry of Commerce and Tourism, 1992).
- (lix) A. R. T. Solarin: Building World-Class Customer-Oriented Culture in the Banking Industry. (Workshop on Strategies for Building Customer-Oriented Culture in the Banking Industry, Rockleads, 1994).
- (lx) A. R. T. Solarin: Quality in the Service Industries. (Workshop on Strategies for Building Customer-Oriented Culture in the Banking Industry, Rockleads, 1994).
- (lxi) A. R. T. Solarin: Total Quality Management Basics. (Workshop on TQM for Frontline Managers, Rockleads, 1995)
- (lxii) A. R. T. Solarin: Paradigm: The Enemy of Change. (Workshop on TQM for Managers, Rockleads, 1995).
- (lxiii) A. R. T. Solarin: Politics of Change. (Workshop on Training-the-trainers in TQM. Rockleads, 1995).
- (lxiv) A. R. T. Solarin: Total Quality Leadership (IRTQM Conference on TQM, (1996).
- (lxv) A. R. T. Solarin: Role of Top Management in Total Quality Management Implementation. (UNAAB Workshop, 1997).
- (lxvi) A. R. T. Solarin: Total Quality Management: An Efficient Tool for Planning, Research and Statistics. (UNAAB Workshop, 1997).

6.7 TECHNICAL REPORTS

- (lxvii) Market Survey of Tuna and Tuna Products. (FISESCO LTD, Nigeria, 1982).

- (I xviii) Quality and Productivity Improvement at Bordpak Premier Packaging (BPP), a division of UACN Plc; I, II, III, & IV Quarterly Reports 1992-1993.
- (I xix) Total Quality Management Implementation at Eagle Package Printing (EPP) I,II, III, & IV Quarterly Reports 1993-1994.
- (I xx) Total Quality management Implementation at Bordpak Premier Packaging (BPP) I, II, III, & IV Quarterly Reports 1995-1996.

6.8 TRAINING AND CONSULTING EXPERIENCE

As a Quality and Productivity Improvement Consultant, had my first encounter with Quality Control in 1978 and Total Quality Management (TQM) in 1989. Since then, I have participated in national and international conferences, seminars and workshops on Quality Control, Total Quality Management, Productivity Improvement and related topics. These were organised by Standards Organisation of Nigeria (SON); National Productivity Centre (NPC); Federal Ministry of Commerce and Tourism and Nigerian Export Promotion Council (NEPC). My participation was in various capacities, including Facilitator, Guest Speaker, Coordinator and Convener.

Since 1991, I have been a Principal Consultant in TQM Implementations in many companies in Nigeria, including UACN Plc, which is ranked the biggest private conglomerate in Africa.

I have been Principal Facilitator to foremost consulting outfits on TQM in Nigeria to design and run workshops on topics including TQM for Managers; Training-The-Trainers in TQM; Building World-Class Customer-Oriented Culture in the Banking Industry to mention but a few.

I was the Team Leader of the Inter-university Research Team on Quality Management (IRTQM). IRTQM was a university-based Team, involved in conducting research into TQM Implementation and Development in Nigeria. IRTQM was responsible for organising annual national and international conferences on TQM in Nigeria. These activities were carried out with support from many organisations in the private sector, including Chevron Nigeria Ltd; The Document Company - H. S. Xerox; Shell Development Company; and a host of others.

I played leading role in the design and execution of the following training-related activities:

- (1) Quality and Productivity Improvement Project at Litho Factory, Bordpak Premier Packaging (BPP), Apapa (A division of UACN Plc) (1992-1993).
- (2) Total Quality Management (TQM) Implementation in Bordpak Premier Packaging (BPP), Apapa (1994-1996)
- (3) Total Quality Management (TQM) Implementation in Eagle Package Printing, Otta (1993-1995)
- (4) TQM for Managers Training Workshop for Lion of Africa Insurance PLC;
- (5) Training-The-Trainers in TQM for First Bank PLC Training Managers – Organised by Rockleads Limited (1994-1995)

- (6) Building World-Class Customer-Oriented Culture in the Banking Industry Workshop for First Bank Nig PLC Managers(1994-1995).
- (7) ISO-9002 Certification Programme for Vita Foam Nig. PLC (1999-2000)

7.0. REFEREES:

- (i) **Professor Mohammed Ibrahim,**
National Vice-President,
Mathematical Association of Nigeria (MAN),
Head, Department of Mathematics,
University of Ilorin,
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- (ii) **Professor Felix Anjorin,**
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