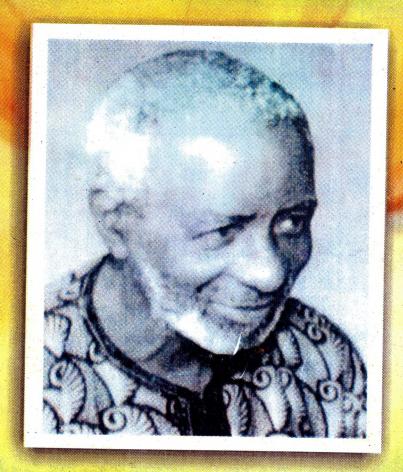
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OF THE NIGERIAN MATHEMATICAL SOCIETY



PROFESSOR C. O. A. SOWUNMI (Sept. 14, 1934 - Dec 3, 2007)

Volume 2 Number 2, 2009

DR. (MRS) T. O. OLUYO

### NOTICES

of the Nigerian Mathematical Society

Volume 2 Number 2, 2009

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Editor:

DR (MRS) T.O. OLUYO



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### **About the Cover Page**

Professor Charlse Olusegun Adedayo Sowunmi was born on September 14, 1934. He died on December 3, 2007. He was a professor of Mathematics at University of Ibadan and a member of the Nigerian Mathematical Society for 30 years. At Ibadan, he supervised: 1.) Professor J.S Sadiku (1980), 2.) Dr V.F Payne (1992), 3.) Professor Kimbir (1994), 4.) Dr N.I Akinwande (1997), 5.) Dr. M.A Liadi (1999), 6.) Dr. M Tchuenche (2002), 7.)Dr. S.O Olabiyi (2002), 8.) Dr. S.C Inyama (2004), 9.) Dr (Mrs) O Yusuf (2005).

**Editor's Note:** The Notices plans to publish a more extensive obituary for Professor C.O.A Sowunmi in the future. In the meantime his Doctoral students and colleagues may wish to institute a prize to be managed by NMS in his name.

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### FROM THE NMS PRESIDENT

### THE FUTURE OF MATHEMATICS IN NIGERIA

It is indeed pleasant to share some thoughts with you as we produce the second volume of the Notices the Nigerian Mathematical Society.

The 4 members of the society that won the best Ph.D theses in various areas in 2008 have been given official letters of awards and the cash prizes.

Professor A.U. Afuwape, the immediate past treasurer of the society was recommended by the Nigerian Mathematical Society for membership of the International Mathematical Union. Nominating Committee and our nomination was approved. We are happy about the development.

In actual fact, the IMU Nominating Committee is now complete and consists of the following persons.

David Mumford (Chair)

Anthony Afuwape

Nigel Hilchin

Lazzlo Lovasz

C.S. Seshadri

Ian Sloan and

Frances Yao

Members of the Nigerian Mathematical Society may wish to submit names for the offices of:

- 1) IMU President
- 2) IMU Secretary for 2011 2014.

The nominations must include the candidate's CV and the candidate's declaration of willingness to serve if elected. Such nominations should be sent to the secretary of NMS for processing

Some of the senior colleagues in this society have retired from their initial universities and are now in other universities. Many more will retire over the next 5 years. Whether the retirees still continue with one university or another, one

thing is clear, the headship of departments of mathematics is now in the hands of younger colleagues in NMS. It is important to highlight the fact that a large number of the senior colleagues received the Ph.D degrees in Europe or USA. On the other hands, most in the latter group received Ph.Ds in Nigeria. Despite the difference in the places of awards, I am convinced the latter group is as competent as the former group. Two things are needed for much success and these are hard work and commitment to cutting edge research and teaching.

There is a dialogue that is on going about how to reform education in Nigeria. There was a time when we had 6-5-2-3 and now we have 6-6-4 and in future?-?-?-. What we seem not to realiase in all the changes is what Professor Paul Halmos taught through many papers and speeches- Education is only as good as the teachers (re-phrasing his original papers). In other words, what is required may not be the mere restructuring of the years or the type of qualifying examinations but much improvement in the quality of the teachers and lecturers at all levels.

In other words, the future of mathematics in Nigeria will depend to a very large extent on the current activities of members of NMS. We must continue to show much interest in mathematics. We must continue to discharge our duties effectively and be committed to high standards.

The world is in economic mess because some people in positions of authority did not possess a strong sense of fairness, good judgement and a high sense of personal integrity. We should therefore inculcate the qualities of fairness, good judgement and integrity in our students through teaching and research.

I wish to remind you, as I conclude this note that we need your comments and suggestions for the  $3^{\rm rd}$  Notices of the Nigerian Mathematical Society.

I am thanking you as we continue our journey.

Professor R.O. Ayeni

### **EDITORIAL DESK**

The editorial team of our valued Notices of NMS is grateful for the support received from members across Nigeria as the first edition was issued last year. The editor actually got lots of amicable protests and criticisms. Never mind, we accept everything as a form or morale booster. Let's be specific here, we gave comprehensive list of individual members for the year 2007 on pages 4 through 15 of the first edition. That alphabet listing came from the desk of the Treasurer of NMS in person of Prof S.S Okoya. Then some members complained about outright omission of their names, some about omitted information about them. If any financial member's name was omitted, we regret the development. It was not by design. We are only humans and promise to amend and improve on that.

However, members are advised to kindly send us update of their biodata through the e-mail <a href="mailto:nmsnotices@yahoo.com">nmsnotices@yahoo.com</a>. The task of producing our notices is quite enormous. When the mantle fell on me as the Acting Editor, it was hard to blend with circumstances. I was just healing emotionally having then recently received a hard blow from life as a mother. But working with Professor R.O. Ayeni over the years, I have learnt how to adjust and cope with challenges. I never disappointed. I accepted the offer to serve. We then set to work at a time we were preparing to honour our President (NMS President, that is) and mentor, Professor R.O. Ayeni, with a birthday bang. Yes, it was indeed a bang last year June 9 when the academic Filial Generation of our dear Professor gathered to celebrate his thirty (30) years of academic service cum 60th birthday. Today it's all in past. We had them all done. Now we are making progress.

Now to the clarion call, Mathematicians are invited to send contributions to subsequent editions of our Notices. The contributions could be in form of articles, letters or information about events or research as well as issues of Mathematical interest. We welcome things like that and such could be sent to:

The Editor,
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Dept. Of Pure and Applied Mathematics
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Or nmsnotices@yahoo.com

You are hereby welcome to our world of Mathematics. Enjoy this edition, which is a piece from the Mathematics community of NMS. It may not yet be a pièce de résistance. Kindly accept with love.

Welcome on board.

Dr (Mrs) Tèmi O. Olúyo

### **DOCTORAL DEGREES CONFERRED 2008-2009**

### RECENT DOCTORAL THESES

(a) LADOKE AKINTOLA UNIVERSITY OF TECHNOLOGY, OGBOMOSO Title of Doctoral Thesis

S/n	Name	Title	Year
1.	FENUGA O.J	Induced fluid flow in a circular cylinder	2009
		under the influence of a rotating magnetic	
		Field.	

(b) OBAFEMI AWOLOWO UNIVERSITY, ILE- IFE Title of Doctoral Thesis

S/n	Name	Title	Year
1	ODEJIDE	Method of weighted residuals in the solution	2008
	Samuel Ayodele	of problems of physical processes.	
2	AKINBO Gbenga	Some common fixed point results for weakly	2008
		compatible maps in Banach spaces.	
3	BOSEDE Alfred	Results of fixed points for some contractive	2008
	Olufemi	maps in Banach spaces	
4	ADELODUN	Applications of structural equation modeling	2008
	Olusegun	to latent constructs for evaluating educational	
	Ayodele	performance of adult students.	
5	OLATINWO	Stability of some fixed point iterative processes	2008
	Memudu	and the continuous dependence of the fixed	
	Olaposi	points in Banach spaces.	

(c) UNIVERSITY OF ILORIN, ILORIN Department of Mathematics

S/n	Name	Title	Year
1.	M.O. Ola Alabi	A Continuous Formulation of Initial Value	2008
		Solves with Chebyshev Basis Function in a	
		Multistep Collocation Technique	
2.	Y.A. Adekunle	Spectral Collocation Poisson Solvers in	2008
		Polar and Cylindrical Coordinates	

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### **MEETINGS AND CONFERENCES**

S/n	Meetings / Conferences	Date	Venue	Speaker
1	Workshop in Algebra	22 <sup>nd</sup> -28 <sup>th</sup>	University of	Dr Abdullahi
		June '08	Ilorin	Umar
2	International Conference in	15 <sup>th</sup> Jan	Conference	
	Memory of Late C.O.A	'09	Centre	
	Sowunmi "ADVANCES IN		University of	
	MATHEMATICS"		Ibadan, Ibadan	

### **NMS Prizes**

Awards of best Ph.D. Theses for the year 2007-2008 were awarded to the under listed at the University of Port Harcourt Conference

		Thesis Title	Year
S/n	14001100	A mathematical model of thermal explosion in a	2008
1	Dr.ADEGBIE,	A mathematical model of thermal explosion in	
	Kolawole Sunday	combustible gas containing fuel droplet	0007
0	D. OFOEDII Fri	Existence theorem and iterative approximation of	2007
2		solutions of equations involving generalization of	
	Uwadiegwu	Solutions of equations in orders 8	
		nonlinear non expansive maps	2007
3	Dr.OKEDOYE,	Magnetohydrdynamics (MHD) flow of a	2007
J	Akindele Michael	uniformly stretched vertical permeable surface in	
	Akindele Michael	the presence of arrhenius heat generation	
		the presence of armemus near governments for finite	2007
4	Dr. BASHIR Ali	Approximation of common fixed points for finite	200.
		families of nonlinear mappings Banach spaces	

### Inside NMS

- (A) Promotions to Professor
  - 1) S.S Okoya
  - 2) F.I Njoku
  - 3) M.O Oyesanya
- (b) Death of NMS Members
  - Professor U.B.C.O. Federal University of Technology, Owerri, May 2008

### **News from other Societies**

### **American Mathematical Society**

(a) News from AMS

At the August 1985 meeting the council of the AMS approved a motion to regularly assemble and report the Notices information on the relative numbers of men versus women in at least following categories: membership in AMS, invited hour addresses at AMS meetings, speakers at special session at AMS meetings, percentage of women speakers in AMS special Sessions by gender of organizers, and members of the editorial boards of AMS journals.

It was subsequently decided that this information would be gathered by determining the sex of the individuals in the above categories based on name identification if no other means was available and that additional information on the number of Ph.D.'s granted to women would also be collected using the AMS-ASA-IMS-MAA-SIAM Annual Survey. Since name identification was used, the information for some categories necessitated the use of three classifications:

Male: names that were obviously male

Female: names that were obviously male

Unknown: names that could not be identified as clearly male or

female (e.g., only initials given, non-gender-specific names, etc.)
The following is the twenty-second report of this information. Updated reports will appear annually in the Notices.

### 2007 Members of AMS Residing in U.S.

Male	14,360	67%
Female	3,691	17%
Unknown	3,247	15%
Total	21,300	100%

### Invited Hour Address Speakers at AMS Meetings (1998-2007)

384	84%
71	16%
0	0%
455	100%
	71

### Speakers at Special Sessions At AMS Meetings(2003-2007)

Male	9,814	81%
Female	2,138	18%
Unknown	212	2%
Total	12,164	

### Percentage of Women Speakers in AMS Special Sessions by Gender of Organizers (2007)

### Special Sessions with at least One Woman Organizers

Male	749	74%
Female	250	25%
Unknown	18	2%
Total	1,017	

### Special Sessions with no Woman Organizers

Male:	1,185	82%
Female	221	15%
Unknown	38	3%
Total	1,444	

### Trustees and Council Members

	200	4	200	)5	20	006	20	007
Male	29	74%	30	71%	27	66%	27	67%
Female	12	25%	12	29%	14	34%	14	34%
Total	41		42		41		41	

### Members of AMS Editorial Committees

Male	1998		1999		2000		2001		2002		2003		2004		2005		2006		2007	
	182	85	198	86	186	85	190	85	195	85	189	84	180	84	184	83	193	84	194	84
		%		%		%		%		%		%		%		%		%		1%
Female	31	15	32	14	33	15	34	15	35	15	35	16	34	16	38	17	36	16	36	16
		%		%		%		%		%		%		%		%		%		%
Total	213		230		219		224		230		224		214		222		229		230	

### Ph.D.'s Granted to U.S. Citizens

.9,6	1998		1999		2000		2001		2002		2003		2004		2005		2006		2007	
Male	423	72 %	367	66 %	379	71	343	69	291	70	341	68	347	68	355	72	399	72	396	69
Female	163	28	187	34	158	29	151	31	127	30	158	32	166	32	141	28	153	28	180	31
Total	586		554	70	537	76	494	<b>%</b> ₀	418	%	499	%	513	%	496	%	552	%	576	%

(b) Calendar of Activities

- 1-3 International Conference of Applied and Engineering Mathematics 2009, Imperial College London, London, United Kingdom. (Oct. 2008, p. 1135)
- 1- August 31 Mathematical theory and Numerical Methods for Computational Materials simulation and design, Institute for Mathematical Sciences, National University of Singapore, Singapore,

5-10 22<sup>nd</sup> British combinational conference, University of St. Andrews, Fie, Scotland. (Dec. 2008 p 1450)

- 6-8 SIAM conference on Control and Its Applications, Sheraton Denver Hotel, Denver, Colorado. (Dec. 2008, p. 1450)
- 6-10 2009 SIAM Annual Meeting (AN09), Sheraton Denver Hotel, Denver, Colorado. (Feb. 2009, p. 309)
- 6-10 26<sup>th</sup> Journees Arithmetiques, Universite de Saint-Etienne, Saint- Etinne, France. (Jun./Jul. 2008, p. 742)
- 6-10 First PRIMA Pacific Rim congress of Mathematicians, University of New South Wales, Sydney, Australia (Jun/Jul. 2008, p. 742)
- 6-10 Journees de Geometrie Arithmetique de Rennes, Institut de Recherche Mathematique de Rennes, Universite de Rennes 1, Rennes, France. (Sept. 2008, p. 1032)
- 6-10 Workshop on equivariant Gromov Witten theory and symplectic vortices, CIRM, Luminy, France.

**Description:** The focus of the workshop will be on the development of equivariant Gromov-witten theory, including the study of moduli spaces of maps to quotient stacks by reductive groups, and from the symplectic point of view, moduli soaces of smplectic vortices. The workshop is organized around this specific direction, with an aim to bring together researchers in alhebraic and smptlectic geometry who have had no previous interaction. On the other hand, the workshop will promote discussion of the interaction of holmorphic maps, gauge theory, and group actions more broadly.

Information: http://www.math.rutgers.edu/-ctw/luminy/index.html.

6-11 Conference on Algebraic Topology CAT'09, University of War-saw, Warsaw, Poland. (Jan. 2009, p. 72)

DEGLETION, DEGLETON,

- 6-11 International Conference on Semigroups and Related topics, Faculty of Sciences of the University of Porto, Porto, Portugal. (now. 2008, p. 1319)
- 6-11 International Conference on Topology and its Applications, ICTA 2009. Hacettepe University, Ankara, Turkey.
- Description: The aim of this conference is to bring together experts and young researchers in the field of topology from Turkey and abroad.
- Topics: Asymmetric topology, symmetric topology, point-free, constructive or categorical aspects topology on lattices and applications.

Information: http://www.icta.hacettepe.edu.tr.

9-13 The 3th International Workshop on Maatrix Analysis and Applications,

Hangshou (Lin'An), China.

- Description: To be held at Hangshou (Lin'An) under the auspices of Zhejiang forestry University, Zhejiang province, china, The purpose of this conference is to stimulate research providing an meet for informal discussions. The previous meetings of the workshop series have taken place in Beijing (China) and fort Lauderdale (USA). http://www.math.technion.ac.il/iic/ela/index.html Electronic Journal of Linear Algebraic (ELA) will devote a special issue to the conference, and abstracts of the talks will be published by world Academic Press.
- Keynote Speaker: Chi-Kwong Li, Ferguson Professor of Mathematics at College of William and Mary, USA.
- Sponsor: This meeting is sponsored by the National Natural Science Foundation of China and Zhejiang forestry University, and it endorsed by the International Linear Algebra Society (ILAS).
- Organizers: Chairs of the organizing committee are changing Xu (Shejiang Forestry University, China, cqxurichard@163.com ); Guanghui Xu (Zhejiang Forestry University, China) and Fuzhen Zhang (Nova Southeastern University, Ft Lauderdale, USA, zhang@nova.edu).
- Information: for more information and updates, visit http://www.nova.edu/shang/09MatrixWorkshop.html.
- MULTICONF-09, Orlando, Florida. (Jan. 2009, p. 72) 13-16
- International Conference on Finite Fields and Applications. 13-179<sup>th</sup> University College Dublin, Dublin, Ireland. (Jun./Jul. 2008, p. 742)
- Permutation Patterns 2009. Dipartmento di Sistemi e Informatica, 13-17 Universita di Firenze, Firenze, Italy. (Jan 2009, p. 72)
- 7th International ISAAC Congress, Imperial College, London, United 13-18 Kingdom. (Jan. 2009, p. 72)
- The 19th International Conference on Banach Algebras, Bedlewo, 14-24

Poland. (Oct. 2008, p. 1135)

- XII Diffiety School on Geometry of Partial Differential Equations and Secondary Calculus, Santo Stefano del sole, Avellino, Italy. (Feb. 2009, p. 309)
- 20-24 21<sup>st</sup> International Conference on Formal Power Series & Algebraic Combinatorics. Research Institute for symbolic Computation, Hagenberg, Austria. (Dec. 2008, p. 1450)
- 20-24 AIP (Applied Inverse Problems), Vienna, Austrial (Nov. 2008, p. 1319)
- Equadiff 12, Brno, Czech Republic. (Aug. 2008, p. 872)
- 20-31 2009 ESSLLI Student Session, Bordeaux, France. (Jan. 2009, p. 72)
- 20-December 18 Non-Abelian Fundamental Groups in Arithmetic Geometry, Isaac Newton Institute for Matehmatical SSciences, Cambrrige, England. (Aug. 2008, p. 872)
- 27-30 The Society for Mathematical Biology Annual Meeting, University of British Columbia, Vancouver, Canada. (Nov. 2008, p. 1319)
- 27-31 33<sup>rd</sup> Conference on Stochastic Processes and their Applications, Berlin, Germany. (May 2008, p. 636)
- 29- July 24 The Cardiac Physiome Project, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Aug. 2008, p. 872)
- 31-August 2 3<sup>rd</sup> Jairo Charris Seminar Symmetries of differential and difference equations, Universidad Sergio Arboleda Bopgota, Colombia. (Feb. 2009, p.310)

August 2009

- 3-5 SNC2009: The 3<sup>rd</sup> International Workshop on symbolic- Numeric Computation: Hotel "CO.OP INN Kyoto", Japan.
- **Description**: The program of SNC 2009 will include invited presentations, contributed research papers, and posters.
- Topics: Specific topic include, but are not limited to: Hybrid symbolic numeric algorithms, approximate polynomial GCD and factorization, symbolic numerical methods for symbolic numeric computation, symbolic differential equations for symbolic-numeric computation, symbolic-numeric methods for geometric computation, symbolic algorithms in algebraic geometry, symbolic-numeric algorithms for nonlinear optimization, numeric computation of characteristic sets and Groebner bases, implementation of symbolic numeric algorithms, approximate algebraic algorithms, applications of symbolic-numeric computation. Information: <a href="http://www.snc2009.cs.ehime-u.jp">http://www.snc2009.cs.ehime-u.jp</a>.
- 3-8 XVI International Congress on Mathematical Physics (ICMP09), Clarion

Congress Hotel Prague, Czech Republic. (Jan. 2009, p. 73)

- 3-14 Pan-American Advanced Studies Institute (PASI): In Commutative Algebra and its connections to Geometry, Olinda, Brazil. (Feb. 2009, p. 310)
- 10-12 Continuing Statistics Education Workshop, Statistics Online Computation Resources (SOCR), University of Carlifornia, Los Angeles, California. (Dec. 2008, p. 1450)
- 10-12 Workshops on Technology-Enhance Probability and Statistics Education Using SOCR Resources, Statistics Online Computational Resources (SOCR), University of California, Los Angeles, California. (Dec. 2008, p. 1451)
- 10-14 Topological Complexity of random Sets, American Institute of Mathematical, Palo Alto, California. (Jan. 2009, p. 73)
- 12-14 18thUSENIX Security Symposium, Le Center Sheraton Hotel Montreal, 1201 Boulevard Rene-Levesque, West Montreal, Quebec H3b 217 Canada. (Jan. 2009, p.73)
- 12-December 18 Dynamic of Discs and Planets, Isaac Newton Institute for Mathematical Sciences Cambridge, England. (Aug 2008, p. 872)
- Symplectic and Contact Geometry and Topology, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2008, p. 1033)
- International Conference on Complex Analysis and Related Topics, University of Tarku, Turku, Finland. (Feb, 2009, p. 310)
- Modular forms on noncongruence Groups, American Institute of Mathematics, Palo Alto, California. (Aug. 2008, p. 872)
- 17-December 18 Tropical Geometry, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2008, p. 1033)
- 24-28 Relative Trace formula and Periods of Automorphic Forms, American Institute of Mathematics, Palo Alto, California. (Sept 2008, p. 1033)
- 27-29 Ukrainian Mathematical Congress 2009 (Dedicated to the Centennial of Nikolai N. Bogoliubov), Institute of Mathematics of NNASU, Kiev (Kyiv), Ukraine, (Jan. 2009, p. 73)

September 2009

- 2-4 Workshop in nonlinear elliptic PDEs, Université Libre de Bruxelles, Brussels, Belgium. (feb. 2009, p. 310)
- 2<sup>nd</sup> Dolomites Workshop on constructive Approximation and Applications 4-9 (DWCAA09), Alba di Canazei Trento, Italy, (Jan 2009, p. 73)
- 8-December 11 Long Program: Combinatorics: Methods and Applications in Mathematics and Computer Science, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California (Jan. 2009, p.73)

- 9-16 Combinatorics: Methods and Applications in Mathematics and Computer Science, Tutorials, Institute for Pure and Applied Mathematics (IPAM), UCLA, Loc Angeles, California. (Jan. 2009, p. 73)
- 10-12 Quantum Topology and Chern-Simons Theory, Institut de Recharche Matehmatique Avencee, Universite de Straasbourg, 7 rue Rene Descartes, Strasbourg, France. (Jan. 2009, p. 73)
- 11-17 (NEW DATE) Models in Developing Mathematics Education, Dresden University of Applied Sciences, Dresden, Germany. (Apr. 2007, p. 498)
- 15-18 Bogolybov Kyiv Conference: "Modern Problems of Theoretical and Mathematical Physics", Bogolyubov Institute for Theoritical Physics, Kyiv, Ukraine. (Nov. 2008, p. 1319)

### October 2009

- 5-8 2009 SIAM/ACM joint Conference on Geometric Design and Solid & Physical Modeling, Hilton San Francisco Financial District, Sam Francisco, California. (Dec. 2008, p. 1451)
- 5-9 Combinatorics: Probabilistic Techniques and Applications, Institute for Pure and Applied Mathematics (IPAM) UCLA, Los Angeles, California. (Dec. 2008, p. 1451)
- 9-11 SIAM Conference on Mathematics for Industry: Challenges and Frontiers (M109). Hilton Sam Francisco Financial District, San Francisco, California. (Feb. 2009, p. 310)
- 12-16 Algebra, Geometry, and Mathematical Physics. The Bedlewo Mathematical Research and Conference Centre, Bedlewo, Poland. (Dec. 2008, p. 1451)
- 16-18 AMS Central Section Meeting, Baylor University, Waco, Texas. (Aug. 2008, p. 872)
- 19-23 Combinatorics: Combinatorial Geometry, Institute for Pure and Applied Mathematics (IPAM) UCLA, Los Angeles, California. (Dec. 2008, p. 1451)
- 19-23 Higher Reidemeister Torsion., American Institute of Mathematics, Palo Alto, California. (Dec. 2008, p. 1451)
- 20-22 International Conference in Modeling Health Advances 2009, UC Berkeley, San Francisco Bay Area, California.
- Description: A host of new diseases, like HIV/AIDS, BSE, Avian Flu, West Nile Virus and other have appeared on the scene during the last twenty-five years and undoubtedly, more will come in the coming years. To tackle these illnesses, the cooperation of modelers, mathematicians, statisticians, computer scientists, and others, and of researchers from thee medical community is absolutely essential. Modeling is important because it gives important insight into the method of treatment. In the case

of HIV/AIDS, for example, mathematical modeling indicated that a combination of both protease inhibitors and reverse transcriptase inhibitors would be far more effective than any one of these two drugs. The purpose of this conference is to bring all the people working in the area of epidemiology under one roof and encourage mutual interaction.

Information: http://www.iaeng.org/WCECS2009/ICMHA2009. html; email: publication@iaeng.org.

- 24-25 AMS Eastern Section Meeting, Pennsylvania State University, University Park, Pennsylvania. (Aug. 2008, p. 872)
- 30-November 1 AMS Southeastern Section Meeting, Florida Atlantic University, Boca Raton, Florida. (Aug. 2008, p. 872)

### November 2009

- 1-6 23rd Large Installation System Administration Conference (LISA 09), Baltimore Marriot Waterfront, 700 Alice Anna Street, Baltimore, Maryland.
- Description: Over 1,000 system administrators of all specialties and levels of expertise meet at LISA to exchange ideas, sharpen old skills, learn new techniques, debate current issues, and meet colleagues, vendors, and friends, Talks, presentations, posters, Wips, and BoFs address a wide range of administration specialties, including system, network, storage, and security administration on a variety of platforms including Linux, BSD, Solaris, and OS X,

### Information: http://usenix.org/events/lisa09/.

- 1-December 31 financial Mathematics, Institute for Mathematical Sciences, National University of Singapore, (Jan. 2009, p. 73)
- 2-6 Combinatorics: Topics in Graphs and Hyper graphs, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Jan. 2009, p. 741
- 7-8 AMS Western Section Meeting, University of California Riverside, California (Aug. 2008, p. 872)
- 16-20 Combinatorics: Analysis Methods in Combinatorics, Additive Number Theory and Computer Science, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Dec. 2008, p. 1452)
- December 4 Southern right Delta (Conference on the Teaching and Learning of Undergraduate Mathematics and Statistics, Gordon's Bay, Western Cape, South Africa. (Feb. 2009, p. 310)

### December 2009

7-9 SIAM Conference on Analysis of Partial Differential Equations (PD09), Hilton Miami Downtown, Miami, Glorida. (Feb. 2009, p. 310)

16-18 The 4<sup>th</sup> Indian International Conference on Artificial intelligence: (IICAL-09), Tumkur (near Bangalore), India. (Dec. 2008, p. 1452)

July 2010

26-August 6 Winter School on Topics in Noncommutative Geometry, Departmento de Matematica Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires Argentina.

**Description**: The school will cover different topic in non-commutative geometry aand its connections with other areas of mathematics and physics, such as operator index theory, strings, representations, operator algebras and K-Theory. As of December 2008. Following people Have agreed in principle to come and give a course: Henrique Bursztyn, Joachim Countz, Pavel Etingof, Victor Ginzburg, Victor Kac, Max Karoubi, Henri Moscovici, holger Reich Nicolai Reshetikhin, Marc Rieffel, Jonathan Rosenberg, Georges Skandalis Boris Tsygan.

Organizers: G. Corti0as, M. Farinati, J.A. Guccione, J.J. Guccione, M. Grana.

Scientific Committee: G. Cortinas, J. Countz, B. Tsygan.

Information: http://cms.dm.uba.ar/members/gcorti/workshop.GNC/3ELLIS

### INTERNATIONAL MATHEMATICAL UNION

This is a report about the use and misuse of citation data in the assessment of scientific research. The idea that research assessment must be done using "simple and objective" method is increasingly prevalent today. The "simple and objective methods" are broadly interpreted as bibliometrics, that is, citation data and statistics derived from them. There is a belief that citation statistics are inherently more accurate because they substitute simple numbers for complex judgments, and hence overcome the possible subjectivity of peer review.

But this belief is unfounded.

Relying on statistics is not more accurate when the statistics are improperly used. Indeed Statistics can mislead when they are misapplied or misunderstood. Much of modern bibliometrics seems to rely on experience and intuition about the interpretation and validity of citation statistics.

While numbers appears to be "objective", their objectivity can be illusory. The meaning of a citation can be even more subjective than peer review. Because this subjectivity is less obvious for citations, those who use

citation data are less likely to understand their limitations.

\* The sole reliance on citation data provides at best an incomplete and often shallow understanding of research- an understanding that is valid only when reinforced by other judgments. Numbers are not inherently superior to sound judgments

Using citation data to assess research ultimately means using citation-based statistics, to rank things-journals, papers, people, programs, and discipline. The statistical tools used to rank these things are often

misunderstood and misused.

For journals, the impart factor is most often used for ranking. This is a simple average derived from the distribution of citations for a collection of articles in the journal. The average captures only a small amount of information about that distribution, and it is a rather crude statistic. In addition there are many confounding factors when judging journals by citations, and any comparison of journals requires caution when using impact factors. Using the impart factor alone to judge a journal like using weight alone to judge a person's health.

For papers, instead of relying on the actual count of citations to compare individual papers, people frequently substitute the impart factor of the journals in which the paper appear. They believe that the higher impart factors must mean higher citation counts. But this is often not the case! This is a pervasive misuse of statistics that needs to be challenged

whenever and wherever it occurs.

For individual scientists, complete citation records can be difficult to compare. As a consequence, there have been attempts to find simple statistics that capture the full complexity of a scientist's citation record with a single number. The most notable of these is the h-index, which seems to be gaining in popularity. But even a casual inspection of the h-index and its variants shows that these are na ve attempt to understand complicated citation records. While they capture a small amount of information about the distribution of a scientist's citations, they lose crucial information that is essential for the assessment of research.

The validity of statistics such as impart factor and h-index is neither well understood nor well studied. The connection of these statistics with research quality is sometimes established on the basis of "experience". The justification for relying on them is that they are "readily available". The few studies of these statistics that were done focused narrowly on showing a correlation with some other measure of quality rather than on determining how one can best derive useful information from citation data.

We do not discuss citation statistics as a tool for assessing the quality of research-citation data and statistics can provide some valuable information. We recognize that assessment must be practical and for these reason easily derived citation statistics almost surely will be part of the process. But citation data provide only a limited and incomplete view of research quality, and the statistics derived from citation of data are sometimes poorly understood and misused. Research is too important to measure its value with only a single coarse tool. We hope those involve in assessment will read both the commentary and the details of this report in order to understand not only the limitations of citation statistics but also how better to use them. If we set high standards for the conduct of science, surely we should set equally high standards for assessing its quality.

### (a) Extracts (IMU Reports on citation Statistics).

The said report analyses important factors and similar statistics based citations. The International Mathematical Union (IMU) released the vital

document (citation Statistics) by the circular index "IMU AO Circular Letter 5/2008" and communicated to NMS through the President Prof. R.O Ayeni in June 2008. The report was facilitated by the joint committee of IMS (Institute of Mathematical Statistics), IMU (International mathematical Union) and ICIAM (International Council for Industrial and Applied Mathematics). The executive committees if IMU, IMS and ICIAM (the three organisations which represent the world community of Pure, Applied and Industrial mathematics and statistics) appointed the trio of John Ewing (Providence, USA: Chair IMU), Robert Alder (Haifer, Israel- IMS) and Peter Taylor (Melbourne, Australia-ICIAM) to form the committee on 'Quantitative Assessment of Research' and this was announced through IMU-Net 24, July 2007. The joint committee was given the term of reference as made available at:

http://www.mathunion.org/Publications/2007/Charge-ComOnQuantAssessmRes070521.pdf.

The 26 page report is available on the IMU website at

Http://www.mathunion.org/Publications/Report/CitationsStatistics.

IMU in the letter to NMS partly writes about effort as having been "...triggered by numerous request from IMU member countries, mathematical societies, important mathematical institutions and individuals who reported the increasing use (and misuse) of impart factor and similar of other citation based indicators to measure the quality of research of individuals, departments or whole institutions".

It is expected that the careful analysis and recommendations in the report in question will be considered by decision-makers who make use of citation data in research assessments.

### (b) IMU Exchange Programme

Mathematical Societies that are adhering members of IMU could seek assistance of IMU with respect of change of Professors.

Early this year, a Professor from the University of New Mexico taught at OAU lle Ife under the programme. Interested departmental heads of Mathematics may wish to discuss with Professor S.S Okoya for more information.

### Mathematics Calendar

### Conferences

- Mathematical Association of Nigeria, Ibadan, Oyo state. July 27-31 2009.
- Nigerian Association of Mathematical Physics, Bayero, Kano Nov 4-7, 2009

### VISIT OF AN ERUDITE MATHEMATICIAN TO

### OBAFEMI AWOLOWO UNIVERSITY

The authorities of Obafemi Awolow University, IleOIfe, on Monday, 2nd March, 2009 conducted Cocktail ad dinner party at the Vice-Chancellor's lodge in hounor of an erudite scholar of high repute, Dr. Michael Nakamaye - Associate Professor of the University of the New Mexico Abiuquerque, U.S.A., Who came under the volunteer teaching programme for Developing Countries Strategic Group of the International Mathematics Union (IMU), in collaboration with CIMPA and the U.S. National committee for Mathematics.

Present at the Cocktail were principal officers of the school, staff and graduate students of the Department of Mathematics.

Speaking during the cocktail and dinner, the Vice-Chancellor, Prof. Michael Faborode said his administration's drive to making sure that the institution is internationally recognized and the quality of postgraduate students produced is second to none. He added that the IMU volunteer initiative has made the institution rank among top University in the world, which has enhanced interactive learning board. Dr. Nakamaye was elated for the warm reception and promised to initiate a concrete relationship between the University and University of New Mexico, U.S.A.

Dr. Nakamaye during the visit gave lectuers and tutorials of finals year students as well as postgraduates and also delivered a Faculty Seminar titled "Mathematics: A foundation for clear thinking" which buttressed on the applications of Mathematics to various spheres of life, ranging from finance to Security, Technology, other fields of Science and everyday life.

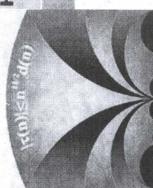
It was not all work for Dr. Nakamaye as he was taken on a tour within and outside the University to savor the beautiful and nature endowed environment.

Speaking at the farewell courtesy visits to the host Dean, Prof V.O. Olareaju and the Vice-Chancellor, Prof. M. Faborode on Friday, 20th March, 2009, Dr. Nakamaye expressed his appreciation to the University, Faculty of Science, the Student and members of Staff of the Department of Mathematics for making his three weeks visit a success. He further acknowledged the efforts of the Head of Department of Mathematics, Prof. S.S. Okoya, for establishing the linkage.

Furthermore, we anticipate the arrival of Professor Vladimir Vershinin as the next volunteer to the Department of Mathematics, Obafemi Awolowo University, Ile-Ife, Nigeria as Michael's successor. He is expected on June 9, 2009 and will handle algebra to the advanced under graduates, give Departmental and Faculty seminars, as did Michael.

# International Congress of Mathematicians ICM 2010

Hyderabad, India, 19-27 August 2010



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REGISTER EARLY

Deadline for registration at reduced rate: May 15th, 2010 Please check this site later for more information

India has a long history of engagement with mathematics. Ancient India had made impressive progress in Algebra

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- The place value system with the use of zero for representing numbers is an Indian invention.
- Mathematicians working in Kerala (in the South West of India) had anticipated many ideas that lie at the base of Calculus, some two centuries before Newton

Call for submissions of abstract

Opening of registration:

January 1st

posters and mathematical of short communications,

software contributions:

January 1st

Deadline for grant application:

January 1st

IMPORTANT DATES

In the more recent past - in the twentieth century Ramanujan and Harish-Chandra blazed new trails in mathematics. The Indian mathematical community is delighted at the opportunity we have been given to host the International Congress of Mathematicians in this country. We look forward to a very exciting congress which would help us widen our mathematical horizon. We are happy to welcome our colleagues from around the world to the Congress. We hope that you will also be able to savour some of the touristic delights our country offers.