International Study Group on the Relations Between HISTORY and PEDAGOGY of MATHEMATICS NEWSLETTER

Calendar

1998 January 6   Baltimore, U.S.A.
HPM and the International Study Group on Ethnomathematics (ISGEm) will jointly sponsor a conference in honor of the 65th birthday of Ubiratan D'Ambrosio. The meeting will take place at the Omni Hotel in Baltimore, Maryland, USA. For more details see this issue, page 4.

1998 January 7 - 10   Baltimore, U.S.A.
Annual meeting of the American Mathematical Society and the Mathematical Association of America. An MAA minicourse on TEACHING A COURSE IN THE HISTORY OF MATHEMATICS is organized by Frederick V. Rickey (Bowling Green) and Victor J. Katz. An MAA minicourse on TEACHING THE HISTORY OF MATHEMATICS USING THE WORLD WIDE WEB is organized by Brian E. Smith (McGill University) and Mary Robinson (University of New Mexico). There will be an AMS special session on the HISTORY OF MATHEMATICS organized by Karen H. Parshall (University of Virginia) and James J. Tattersall (Providence College). An AMS special session on the HISTORY OF MATHEMATICAL LOGIC is chaired by John W. Dawson Jr (Pennsylvania State University).

1998 April 2-4   Washington, U.S.A.
Spring Meeting of the NCTM. HPM will be conducting a Conference Within a Conference at an all day session on Saturday, April 4 at the Marriott Hotel across from the Convention Center. It is aimed at introducing more teachers to the use of history of mathematics in their classrooms. For more information see page 3 in this newsletter.

1998 August 17-21   Chungbuk, Korea
The first ICMI-East Asia Regional Conference on Mathematics Education (ICMI-EARCOME 1) will be held at the Korea National University of Education, Republic of Korea, from August 17 through August 21, 1998. The themes of ICMI-EARCOME 1 are: Technology and Mathematics Education, Comparative Study on Mathematics Education, History and Pedagogy of Mathematics, Mathematics and Society, Mathematics Education in Primary School, Secondary School and University, Teacher Training, Gifted Education. the program will include Invited Lectures.

working Groups and Topic Groups. In each Group, keynote speeches and paper presentations will be given. Abstracts and recommendations will also be proposed. Exhibitions of textbooks, computer softwares and other types of material are being planned as well. The conference languages will be English and Korean. But all oral presentations in Korean will be translated into English.

For more information about ICMI-EARCOME 1 please contact: Professor Hyunyong Shin, Department of Mathematics Education, 363-791, Korea; tel: 82-431-230-3721; fax: 82-431-233-3256; e-mail: shin@knuecc-sun.knue.ac.kr.

1998 August 18-27   Berlin, Germany
The International Congress of Mathematicians will this time take place in Berlin, Germany. There will be Invited Lectures in 19 sections, one of which is the History of Mathematics. For more information on the International Congress, see insert.

1999 May 30- June 4   Manila, Philippines
8th Southeast Conference on Mathematics Education (SEACME-8). The theme is: Mathematics for the 21st century. The conference will cover topics such as: Mathematics content in elementary, secondary and tertiary level schools; Teaching approaches and methods for the next century; Assessment Methods, Mathematics for special groups; Mathematics in the workplace; Educational technology; Alternate delivery systems; Mathematical modeling. The contact persons are Milagros Ibe, Chair and Catherine Vistro-Yu, Secretary. All proposals should be sent to:
SEACME-8 Secretariat, Mathematics Department, Ateneo de Manila University, Loyola Heights, Quezon City 1108, P.O.Box 154, Manila 0917, Philippines. Information is also available on the web page http://www.math.adm.Edu.Ph./seacme8/seacme.html.

From the Chair
Jan van Maanen

Most interesting and equally demanding at the moment, when HPM-matters are concerned, is the ICMI Study on "The role of the history of mathematics in the teaching and learning of mathematics". The Discussion Document (published in the March 1997 Newsletter, and in various other places and other languages than English --that is in French, Greek, Italian and Spanish!) gave rise to a great variety of proposed contributions for the Study Conference. This is the first event to come now, it will be held at Luminy, near Marseille, from 19 until 26 April 1998. The Study is

co-chaired by John Fauvel, the former chair of HPM, and me. At the time of writing, mid-November, we are about to finish the evaluation of the set of proposals, which range from short hand-written accounts to full articles, after which we shall send out the greater part of the invitations for the Conference (eventually there will be some 75 participants). The main purpose of the Conference is to work jointly towards the Study Book, which we want to publish in time to form part of the agenda at the next International Congress in Mathematics Education (ICME) in Japan in the year 2000. In our view the Study Book will not be a conference proceedings, in any usual sense, since it is not our intention to simply collect a series of straightforward academic papers or journal-type articles. Discussion and collaboration at the Study Conference will lead to reports which express common understanding, or commonly felt issues that need further discussion.

Surveying the material submitted sofar, reveals some striking characteristics of HPM in its present state. First I want to point at the broad variety of subjects treated, although I realize that we have more or less prompted this ourselves by the questions in the Discussion Document. Anyhow, we have received theoretical, philosophical statements, bibliographical work, descriptions of classroom experiences, empirical studies of a more statistical nature, examples of resources for students, various ideas about what prospective teachers should learn about the history of mathematics, and many things more, up to a theater play that was performed by a school class. Another striking thing is the large number and the high quality of the proposals that came from France and Italy. I think to understand why the French are so strong, and I shall devote the final paragraph to explaining my understanding. Actually, I am puzzled by the Italian input (or output, if you want): what has reached John and myself is of remarkable quality and variety beyond that of any country of comparable seize. Part of the solution of the puzzle may be that there was a very early translation into Italian of the Discussion Document, by Guido Osimo of Bocconi University, Milan. It was discussed at a large meeting of teachers and researchers in Milan, March 4, and published in issue 23 (June 1997) of the *Lettera Matematica*. But it must be part of the cultural tradition as well. Maybe one of our Italian colleagues would like to shed some light on this?

Here is my light on the French case. France has a long and strong tradition in studying and promoting the

history of mathematics in relation to mathematics education. Crucial is the work of the IREMS, which coordinate teacher training and educational research at the universities (IREM = Institute for Research on the Teaching of Mathematics). History of mathematics is a recurring theme in their training sessions and joint projects with school teachers. Most remarkable is the cooperation, on a national level, within the Inter-IREM committee, chaired by Evelyne Barbin and Alain Bernard, which is responsible for the annual Summer University in the History and Epistemology of Mathematics. The International Programme Committee of the ICMI-Study was assembled within the framework of the 1997 Summer University, kept at Nantes this July. It was an extraordinary series of lectures and workshops, which lasted one week, in which academics and teachers had a continuous exchange of experiences. Moreover, these Summer Universities lead to valuable publications. The 1996, 7th Summer University was attached to the HPM meeting at Braga (Portugal). Its Proceedings (edited by Maria João Lagarto, Ana Vieira and Eduardo Veloso for the Portuguese Association of Mathematics Teachers and the Department of Mathematics of the University of Minho, and already available at the conference) is an impressive two-volume book, which gives a good overview of the field. The 1995, 6th Summer University has lead to a book, published by the IREM de Besançon (iremfc@math.univ.fcomte.fr), entitled Contribution à une approche historique de l1 enseignements des mathématique. In almost 500 pages, six main themes are set out: The construction of mathematical knowledge, History of probability theory and statistics, Mathematics and philosophy, Arts and mathematics, History, epistemology and mathematical teaching, and Mathematics: images and models. At this place, a detailed review would go too far, but let me conclude saying that I think it a very informative and inspiring collection. Compliments on the work of the IREMS. I hope that the French officials may understand that they do work of high quality, which continues to deserve generous support. For 1999 the French Summer University will be part of a larger international Summer University, which is planned to take place in Belgium (partly in Louvain la Neuve, partly in Leuven), 8 to 14 July 1999. Does your diary run that far?

Note on the NCTM spring meeting, April 2-4
Victor J. Katz

Rather than conduct its usual contributed paper session in connection with the annual NCTM meeting, HPM will be conducting a Conference Within a Conference (CwaC) at the NCTM meeting to be held in Washington, DC from April 2-4, 1998. The CwaC is to be an all day session, taking place on Saturday, April 4 at the Marriott Hotel across from the Convention Center. It is aimed at introducing more teachers to the use of the history of mathematics in their classrooms. As for every CwaC, admission is by ticket only. It will be advertized in the preliminary program for the meeting, and NCTM members can sign up as they register for the meeting. The tentative program for the CwaC is as follows.

8:15-8.45 Art Johnson will give a plenary talk on why history should be used in the classroom.

9:00-12:00 There will be three parallel sessions, each consisting of 2 or 3 talks or workshops. The first, History in Middle School, will feature workshops by Karen Michalowicz on Using Ancient Algorithms in Teaching Middle School and by Erica Voolich on Around the World in Hamiltonian Paths. The second, History in High School, will have workshops by Eleanor Robson on Babylonian Geometry and by Don Barry on a topic to be determined. The third, History in College, will feature talks by Fred Rickey on using history in introducing calculus, Pat Allaire on teaching introductory mathematics through history, and David Kullman on a topic to be determined.

12:00-1:30 Lunch break.

1:30-4:00 Again there will be three parallel sessions. One will deal with Chinese mathematics and will have talks and/or workshops by Frank Swetz and Phil Straffin. The second will deal with African Mathematics and will have a workshop by Victor Katz on Algebra in Islam and a talk by Florence Fasanelli on Art and Mathematics.

4:15-5:00. The CwaC will close with a plenary discussion of how to learn more about the history of mathematics and its use in teaching. HPM will conduct a short business meeting beginning at 5:00. Discussions will continue over dinner afterwards.

We welcome all readers of this Newsletter, particularly those who are members of NCTM, to sign up for the CwaC and to encourage others to do so. We look for a lively Saturday in Washington in April.

Conference in honor of Ubiratan D'Ambrosio
Victor J Katz

HPM, along with the International Study Group on Ethnomathematics (ISGEm), is sponsoring a conference in honor of the 65th birthday of Professor Ubiratan D'Ambrosio, formerly of the University of Campinas in Brazil. This conference will celebrate D'Ambrosio's role as the originator of ethnomathematics as well as his influence in mathematics education and the history of mathematics. The conference will take place on Tuesday, January 6, 1988 in the Omni Inner Harbor Hotel in Baltimore, MD. This is the day before the beginning of the Joint Mathematics Meeting. The conference will begin at 8:30 am and will conclude with a festive birthday dinner in the evening. Speakers at the conference include Rueben Hersh, Bill Barton, Gloria Gilmer, John Fauvel, Dirk Struik, Marcia Ascher, Paulus Gerdes, Jeremy Kilpatrick, Claudia Zaslavsky, Arthur Powell, Helena Pycior, and Beatrice Lumpkin, among many others. There will be four sessions of the conference. The first one, from 8:30 to 10:10 will deal with the Philosophy of Ethnomathematics. The second, from 10:35 to 12:30 will consider Mathematics in Diverse Cultures. The third, from 1:30 to 3:30 will consider Mathematics Around the World. And the fourth, from 3:30 to 5:20, will deal with Mathematics and the Search for Justice. The formal sessions will conclude with a brief panel discussion from 5:30 to 6:00 on Where Do We Go From here? Each session will have several speakers giving short presentations and will provide time for questions from the audience. Dinner will begin at 7:00 and will include several additional speakers. Professor D'Ambrosio himself will also give some remarks at the dinner.

We welcome all of you to register to attend this exciting conference in honor of a man who has had worldwide influence in so many areas of mathematics education. To register, please send a check for $50 US, made out to HPM, to Karen Michalowicz, 5855 Glen Forest Drive, Falls Church, VA 22041 to reach her by December 15. If you have a problem sending a check because of currency conversion problems, please send Karen a note to that effect and you can pay at the conference. Please note that the conference fee is primarily to cover the cost of the dinner. Once your registration fee is received, you will get an identification badge and a dinner ticket. These will be mailed in mid-December.

Accomodations for the conference can be secured through the Mathematical Meetings Service Bureau (if you are staying in Baltimore to attend the MAA/AMS meetings). Details on getting hotels can be found in the October issues of the AMS Notices and the MAA Focus. If you are just attending the D'Ambrosio conference, you can contact the Omni Hotel directly at 410-752-1100 and request the conference rate.

I hope to see lots of you in Baltimore in January.

Report on the second Encontro Luso-Brasiliero de História da Matemática e Seminário Nacional de História da Matemática.

On March 23-26 in Sao Paulo, the Portugese-Brazilian Meeting on the History of Mathematics was held. The theme was: On the Contribution by Portuguese Mathematicians for the Development of Mathematics in Brazil. Plenary speakers included José Leite Lopes, who spoke On the Historical Evolution of Science in Brazil (A Evalução Histórica Da Ciência No Brasil), I. Grattan Guiness who lectured on General Histories of Mathematics? Of use? To Whom?, Garção Stocklereo with a talk on the Project about Establishing an Organization for Public Education in Brasil (Projecto Sobre O Estabelecimento E Organisação Da Instrucção Publica No Brazil), Belchior Vieira with a Contribution by two Portuguese Officers for the Introducing Mathematical Culture in Brasil (Contribuição dos Militares Portugueses Para Intradução Da Cultura Matemática No Brazil) and Ubiratan D'Ambrosio (O Ilkuminismo E Seus Reflexos Na Matemática Luso-Brailiera) Conference Notes have been published and edited by Sergio Nobre. In these Conference Notes the reader will find the above mentioned talks and as many as 30 other contributions, (mostly in Portuguese) spanning 379 pages. Those interested in the conference notes can contact Sergio Nobre (Av. 24, 1515 C.P. 178, Dep. Mat. UNESP, Rio Claro SP, Brasil, or via e-mail sernobre@rcb000.uesp.ansp.br).

Joint Mathematics Meeting, January 1998, Baltimore

We remind you of some sessions of interest to readers of this Newsletter at the annual Joint

Mathematics Meeting to be held in Baltimore from January 7 to January 10, 1998. The schedules are as follows.

Wednesday January 7, 8:00 a.m.-10:30 a.m.
AMS Special Session on History of Mathematical Logic, I
Organizer:
John W. Dawson, Jr., Pennsylvania State University, York
8:00 a.m.
Non-classical foundations before 1914.
Wim B. Ruitenburg*, Marquette University
8:30 a.m.
The Last Fifty Years of Recursion Theory.
Anil Nerode*, Cornell University, Ithaca, New York
9:00 a.m.
Set Theory Genealogy.
Jean A. Larson*, University of Florida
9:30 a.m.
The Mathematical Import of Zermelo's Well-Ordering Theorem
Akihiro Kanamori*, Boston University
10:00 a.m.
Fraenkel and the reception of intuitionism.
Dirk D. Van Dalen*, Phil.Dept. Utrecht University

Wednesday January 7, 1998, 8:00 a.m.-10:00 a.m.
MAA Minicourse #1: Part A
Teaching a course in the history of mathematics.
Organizers:
V. Frederick Rickey, Bowling Green State University
Victor J. Katz, University of the District of Columbia

Wednesday January 7, 2:15 p.m.-3:45 p.m.
AMS Special Session on History of Mathematical Logic, II
Organizer:
John W. Dawson, Jr., Pennsylvania State University, York
2:15 p.m.
Hilbert's Consistency Proofs.
Wilfried Sieg*, Carnegie Mellon University
2:45 p.m.
Was Aristotle the first mathematical logician?
John Corcoran*, Department of Philosophy, SUNY at Buffalo
3:15 p.m.
The "Infinitary Cholera Bacillus": Cantor and the Reception of Infinitesimals, 1870-1910.
Gregory H. Moore*, McMaster University

Wednesday January 7, 1998, 4:30 p.m.-6:30 p.m.
MAA Minicourse #1: Part B
Teaching a course in the history of mathematics.
Organizers:
V. Frederick Rickey, Bowling Green State University
Victor J. Katz, University of the District of Columbia

Thursday January 8, 8:00 a.m.-12:00 p.m.
AMS-MAA Special Session on The Uses of History in the Teaching of Mathematics, I
Organizers:
Florence Fasanelli, MAA
V. Frederick Rickey, Bowling Green State University
Victor J. Katz, University of the District of Columbia

8:05 a.m.
Great Mathematics in Great Britain.
Timothy A. Sipka*, Alma College
8:20 a.m.
Teaching Classical Mathematics from Original Sources in a Senior Seminar.
Robert E. Bradley*, Adelphi University
8:35 a.m.
Biographies of Women Mathematicians: History in a Mathematics Course.
Larry Riddle*, Agnes Scott College
8:50 a.m.
Newton's Arithmetica Universalis.
Rebecca A. Berg*, Bowie State University, Bowie, Maryland (930-01-689)
9:05 a.m.
History of Mathematics as a Problem-Solving Course.
Susan M. Mathews*, Wright State University
9:25 a.m.
Recurring Patterns in the Historical Development of Mathematical Knowledge: Implications for Pedagogy.
Mary L. Garner*, Emory University
9:45 a.m.
A mathematics education course on teaching algebra from an historical perspective.
Christopher E. Barat*, Virginia State University
10:05 a.m.
The Sumario Compendioso: The New World's First Mathematics Book.
Shirley B. Gray, California State University, Los Angeles
C. Edward Sandifer*, Western Connecticut State University
10:25 a.m.
A Historically-oriented course in Rational Thermodynamics.
Stacy G. Langton*, University of San Diego
10:45 a.m.

Presenting Kepler's Second Law in Calculus 2, using Astronomia Nova.
Michael Frank Siddoway*, Colorado College
11.05 a m.
Two multimedia presentations incorporating historical background for pedagogical emphasis.
Patricia A. Clark*, Rochester Institute of Technology
Rebecca E. Hill, Rochester Institute of Technology
11 25 a.m.
Every Course a History Course.
Richard J. Jardine*, U. S. Military Academy
11:45 a.m.
Justifying Mathematics in the American Curriculum: The Lessons of E. H. Moore's Pedagogical Program.
David Lindsay Roberts*, Laurel, NM

Thursday January 8, 2:15 p.m.-4:15 p.m.
MAA Session on The Uses of History in the Teaching of Mathematics, II
Organizers:
Florence Fasanelli, MAA
V. Frederick Rickey, Bowling Green State University
Victor J. Katz, University of the District of Columbia

2:15 m.
• *Viewing History Up Close: A Trip to a Rare Book Room.*
Mark P. Sand*, Northwest Missouri State University
. 2:30 p.m.
Four old problems revisited
Radoslav M. Dimitric*, University of California at Berkeley
2.45 p.m.
Olivier and Abel on series convergence: An episode from early 19th century analysis.
Michael S. Goar*, New Mexico State University
3:00 p.m.
A historical approach to the teaching of introductory analysis.
Saul Stahl*, University of Kansas
3.20 p.m.
Historically Based Discovery Exercises.
Robert G. Stein*, CSU San Bernardino
3:40 p.m.
Volumes of Solids of Revolution: A Historical Approach.
Elyn K. Rykken*, Indiana University Northwest
Jody M. Sorensen, Grand Valley State University
4.00 p m
Barrow's Geometrical Methods for Finding Tangents.
Andrew S. Leahy*, Knox College
Nahyan A. G. Fancy, Knox College

Friday January 9, 8:00 a.m.-10:50 a.m.
AMS-MAA Special Session on History of Mathematics, I
Organizers:
James J. Tattersall, Providence College
Karen H. Parshall, University of Virginia

8 00 a m.
The Mathematics of Levi Ben Gershon.
Shai Simonson*, Stonehill College
8 30 a.m.
Felix Hausdorff and the Continuum Problem.
Jacob M. Plotkin*, Michigan State University
Marion Scheepers, Boise State University
9.00 a.m.
George Berkeley's Mathematical, Philosophical, and Religious Ideas: The Intersections, 1732-1735.
Helena M. Pycior*, University of Wisconsin-Milwaukee
9.30 a.m.
Continuous nowhere differentiable functions.
Peter Duren*, University of Michigan
10:00 a.m
Women and Mathematical Education in Classical India.
Kim Plofker*, Brown University
10:30 a.m.
The mathematical love letters of Barnes Wallis.
John G. Fauvel*, The Open University, England

Friday January 9, 1:00 p.m.-5:50 p.m.
AMS-MAA Special Session on History of Mathematics, II
Organizers:
James J. Tattersall, Providence College
Karen H. Parshall, University of Virginia

1:00 p.m.
Leonard Eugene Dickson: One quote, one question—an inextricable link?
Della D. Fenster*, University of Richmond
1:30 p.m
The Beginnings of General Topology.
Rebecca A. Adams*, Southern California College
2:00 p.m.
Three Geometrical Jewels of Al-Kuhi.
John L. Berggren*, Simon Fraser University
Glen Van Brummelen, King's Univ. College
2:30 p.m
Divination in Madagascar: A Case of Ethnomathematics.
Marcia Ascher*, Ithaca College

3:00 p.m.
Fourier's analysis of inequalities (1831) and Tarski's definable sets of real numbers (1931).
Hourya Sinaceur*, Centre National de la Recherche Scientifque, Paris, France.
3:30 p.m.
Mathematics and the Modern State: The Case of Colin Maclaurin.
Judith V. Grabiner*, Pitzer College, Claremont, CA 91711
4:00 p.m.
Mathematics and dialectical materialism.
Charles E. Ford*, Saint Louis University
4:30 p.m.
Mathematics Problems Appearing in the "Ohio Journal of Education": 1854-1857.
David E. Kullman*, Miami University
5:00 p.m.
Interrelations between early topology and analysis.
E. Kreyszig*, Carleton University
5:30 p.m
Euler's factorization of the sine function: one aspect of the prehistory of the Riemann integral.
Mark McKinzie*, University of Wisconsin

Saturday January 10, 7:30 a.m.-10:50 a.m.
AMS-MAA Special Session on History of Mathematics, III
Organizers:
James J. Tattersall, Providence College
Karen H. Parshall, University of Virginia

7:30 a.m.
Some Roots of a Revolution: The Conflict over Arithmetization in Sixteenth-, Seventeenth- and Eighteenth- Century English Editions of Euclid's Elements; Books I Through VI: 1570-1795.
Joel A. Goldstein*, Wise Web Software
David G. Goldstein, Wise Web Software
Jonathan R. Verlin, Drexel University, W. B Saunders Inc.
8:00 a.m.
Leibniz's notions of coordinates in a new age of physical enquiry.
John D. Anderson*, University of Toronto
8:30 a.m.
William Fogg Osgood at Harvard.
Diann R. Porter*, University of Arizona
9:00 a.m.
Mathematics in the XIX and first half of the XX century in South America.
Ubiratan D'Ambrosio*, Brazilian Society of History

of Science
9:30 a.m.
The Search for L. C. Walker.
Bruce Reznick*, University of Illinois at Urbana-Champaign
10:00 a.m.
Adolph Mayer's Early Work in the Calculus of Variations.
Craig G. Fraser*, University of Toronto
10:30 a.m.
The origin of the fifteen schoolgirls problem.
Robin J. Wilson*, The Open University, UK
Terry S. Griggs, The Open University, UK

Saturday January 10, 1:00 p.m.-3:10 p.m.
AMS Session on Statistics and History

1:00 p.m.
Concordance and Gini's measure of association
Roger B. Nelsen*, Lewis & Clark College.
1:15 p.m.
Limiting distribution of periodogram ordinate.
B. B. Bhattacharyya, North Carolina State University, Raleigh, NC
Gary Richardson*, University of Central Florida, Orlando, FL
1:30 p.m.
Adaptive estimation of the slope in the linear model
Hans-Juergen Petersen*, Loyola University Chicago
1:45 p.m.
Some Criteria for the Cumulant Generating Function of an Exponential Family.
Zhihui Liu*, Div. of Biostat., Univ. of Minnesota
2:00 p.m.
The number theorist Ramanujan, a tribute
Baikunth P. Ambasht*, Bokaro Steel City, India
Jamuna P. Ambasht, Benedict College, Columbia, SC 29204
Sanjay Tiwari, Jagjiwan Road, Gaya, India
2:15 p.m.
An annotated list of writings about R. L. Moore and the Moore method
Ben Fitzpatrick, Jr.*, Auburn University
2:30 p.m
The Role of Women in Mathematics Education: A Historic Qualitative Investigation.
Michael J. Bosse', Delaware State University
Deborah A. Conley*, Delaware State University
2:45 p.m
An uncommon interpretation of Euclid's fifth postulate and the curvature of a space.
Ilhan A. Izmirli*, Strayer College

3:00 p.m.
Identity: the uniqueness of the general structure.
Gun-Won Lee*, Seoul National University

Have You Read?
Ronald Calinger, ed.

This column seeks references from across the history and historiography of mathematics, the pedagogy of mathematics, and the sociology of mathematics. It also attempts to cite books or articles, containing sections on these subjects that have the potential for encouraging and motivating students, along with possibly improving the learning of mathematics and research in it, or that may enrich courses. Please send citations with complete bibliographic information to the section editor c/o Department of History, Catholic University of America, Washington, DC 20064, U.S.A.

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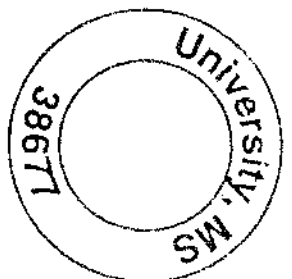Centre, Private Mail Bag 118, Abuja, Nigeria)

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