



International Study Group on the Relations Between
the HISTORY and PEDAGOGY of MATHEMATICS
An Affiliate of the International Commission on
Mathematical Instruction

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This and earlier issues of the Newsletter can be downloaded from our website

<http://www.clab.edc.uoc.gr/hpm/>

These and other news of the HPM group are also available on the website

<http://grouphpm.wordpress.com/>

(the online and on time version of this newsletter).

**7th EUROPEAN SUMMER UNIVERSITY
ON THE HISTORY AND
EPISTEMOLOGY IN MATHEMATICS
EDUCATION**

ESU-7

14-18 July 2014

**Aarhus University,
Campus Emdrup, Copenhagen, Denmark**

SECOND ANNOUNCEMENT

The initiative of organizing a *Summer University on the History and Epistemology in Mathematics Education* was undertaken originally by the French Mathematics

Education community in the early 1980's. From those meetings emerged the Summer University on a European scale, as the *European Summer University (ESU) on the History and Epistemology in Mathematics Education*, the first one taking place in 1993. Since then, the ESU was successfully organized in 1996, 1999, 2004, 2007 and 2010 in different places in Europe: Montpellier (France), Braga (Portugal), Louvain-la-Neuve and Leuven (Belgium), Uppsala (Sweden), Prague (Czech Republic), Vienna (Austria).

Since then, the ESU has been established into one of the main international activities of the HPM Group, which – from 2010 onwards – will be organized every four years. This means that every two years the HPM meetings will have at least one major international meeting of the Group; namely, the ESU will alternate with the HPM Satellite Meetings of ICME.

1. Aim and focus of the ESU

See [HPM Newsletter 83](#).

2. Main themes of ESU-7

See [HPM Newsletter 83](#).

3. Activities during ESU 7

See [HPM Newsletter 83](#).

4. Target population

See [HPM Newsletter 83](#).

5. Time and place

The 7th ESU will take place from Monday 14 to Friday 18 July 2014 at the **Aarhus University, Campus Emdrup (Copenhagen), Denmark.**

The campus is located in Copenhagen, only 10 minutes from the city centre and 25 minutes from the international airport.

From the airport, take the metro to Nørreport station and change to the S-train, line A, which will take you to Emdrup station. The Campus is located directly next to the station. See Google map at conference website, where other maps for important directions will also be available.

The address of the conference site: Department of Education, Aarhus University, Campus Emdrup, Tuborgvej 164, 2400 København NV.

6. Official Languages

See [HPM Newsletter 83](#).

7. Submission of proposals

EXTENDED DEADLINES

31. December, 2013: abstracts of proposals for workshops and oral presentations.

30. April, 2014: abstracts for posters.

Notification of acceptance of presentation will happen within a month after these deadlines.

Important: please, use the [application form](#) on the website and send it in electronic form to:

Evelyne Barbin, Chair of the ESU7:

evelyne.barbin@wanadoo.fr

Tinne Hoff Kjeldsen, Co-chair:

tinne.kjeldsen@ind.ku.dk

Uffe Thomas Jankvist, Co-chair:

utj@dpu.dk

The members of the *Scientific Program Committee* (SPC) will review the submitted abstracts. At this stage, acceptance of a proposal means that the proposed activity will be included in the ESU-7 Scientific Programme. However, this does not imply that a full text based on this activity will automatically be included in the ESU-7 Proceedings, which are going to be published after the ESU. Full texts will be further reviewed by members of the SPC, using the usual international standards. For more details, see *Proceedings*, §10 below.

8. The (international) Scientific Program Committee (SPC) and The Local Organizing Committee (LOC)

See [HPM Newsletter 83](#).

9. The web site

Making known the ESU in various countries (in Europe and beyond) is a major task to be realized by the SPC. To this end, the website of ESU is a very efficient tool. Online registration, etc. will be operating soon at the website:

<http://conferences.au.dk/ESU-7/>

10. Proceedings

See [HPM Newsletter 83](#).

11. Programme

Plenary Sessions

Theme 1: Evelyne Barbin, University of Nantes (France)

The implicit epistemology of mathematics history and education: thirty years after Hans Freudenthal.

Themes 2 & 3: Adriano Dematte, University of Genoa (Italy)

History in the classroom: educational opportunities and open questions.

Theme 4: Cécile de Hosson, University Paris 7 (France)

Promoting an interdisciplinary teaching through the use of elements of Greek and Chinese early cosmologies.

Theme 5: Kristin Bjarnadottir, University of Iceland (Iceland)

Calendars and currency – embedded in culture, nature, society and language.

Theme 6: Gert Schubring, University of Bielefeld (RFA) and UFRJ (Brazil)

New approaches and results in the history of teaching and learning mathematics.

Theme 7: Bjarne Toft, University of Southern Denmark (Denmark)

Julius Petersen and James Joseph Sylvester – the emergence of graph theory.

Panels

Panel 1: History and philosophy of mathematics, technics and technology in mathematics education (organizer: Morten Misfeld, Aalborg University, Denmark).

Panel 2: The question of evaluation and assessment of experiences with introducing history of mathematics in the classroom (organizer: Leo Rogers, Oxford University, GB).

Provisional Time Schedule

	Monday 14	Tuesday 15	Wednesday 16	Thursday 17	Friday 18
9:00-10:00	PL	PL	PL	PL	PL
10:00-10:30	BREAK	BREAK	BREAK	PL	BREAK
10:30-12:30	WS-2	WS-2	P	BREAK	WS-2
				P	
12:30-13:30	LUNCH	LUNCH	LUNCH, EXCURSION AND DINNER	LUNCH	LUNCH
13:30-16:30	WS-3	WS-3		WS-3	WS-2
					CLOSURE
16:30-17:30	OP	OP and SOP		OP	
17:30-19:00	POSTERS AND WINE RECEPTION	HAPPY HOUR		HAPPY HOUR	

Caption:

Plenary lectures: PL

Panel: P

15mn. Short oral presentation of posters: SOP

30 min. Oral presentations: OP

2-hour workshops: WS-2

3-hour workshops: WS-3

Remark: It is expected that there will be at most 6 sessions of OP and/or WS running in parallel.

12. Registration

Participants should register online via the ESU-7 website

<http://conferences.au.dk/ESU-7/>

Conference fees

Early registration (before Feb 28, 2014): 225 EUR (175 EUR for students and school teachers)

Late registration (before May 31, 2014): 275 EUR (225 EUR for students and school teachers)

Online registration will be closed on May 31, 2014.

The registration fee will cover five lunches, one excursion plus dinner, and proceedings after the conference. Payment will eventually be possible through the website.

13. Accommodation

Accommodation can be booked through CABINN Scandinavia Hotel, where you will find a variety of options. You may enter their website through the conference website. A booking number for special prices for ESU-7 participants will soon be available at the conference website.

14. Social Program

- On *Monday* we will combine the poster presentation with a wine reception, where we can all walk around and talk to poster presenters (and others) in a friendly atmosphere while having a snack and a glass of wine.
- On *Tuesday and Thursday* we will end the days with “happy hours” where snacks and drinks are available, and where participants will have the opportunity to talk to each other, have informal meetings, etc.

- On *Wednesday* we have excursion day. We will leave the conference site before noon and go on a boat trip through the channels of Copenhagen. We will arrange for lunch on the way. The boat trip will end at Freetown Christiania, where we will spend some time walking around before we go to a restaurant for the conference dinner.

- (On *Thursday* night there will a dinner meeting for the HPM Advisory Board, where locations for ESU-8 will be discussed.)

15. For further information – contact

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Uffe Thomas Jankvist, Denmark



Have you read these?

(November, 2013)

History of Korean Mathematics

<http://www.icm2014.org/about/about4.asp?sMenu=abo4>

The British Society for the History of Mathematics (Robin Wilson and Raymond Flood)

<http://www.dcs.warwick.ac.uk/bshm/RW.pdf>

Anderson, I.; Crilly, T. (2013). The mathematician who drove Whist forward: William Henry Whitfeld (1856–1915). *BSHM Bulletin: Journal of the British Society for the History of Mathematics*, Vol. 28 (3), 132-142.

Arthur, R. T. W. (2013). Leibniz's syncategorematic infinitesimals. *Archive for History of Exact Sciences*, Vol. 67 (5), 553-593.

Barnett, J.; Bezhanishvili, G.; Leung, H.; Lodder, J.; Pengelley, D.; Pivkina, I.; Ranjan, D.; Zack, M. (2013). Primary Historical Sources in the Classroom: Discrete Mathematics and Computer Science. *Loci Convergence* (July 2013).

Boucard, J. (2013). Cyclotomie et formes quadratiques dans l'œuvre arithmétique d'Augustin-Louis Cauchy (1829–1840). *Archive for History of Exact Sciences*, Vol. 67 (4), 349-414.

Burn, B. (2013). Root 2: the early evidence and later conjectures. *BSHM Bulletin: Journal of the British Society for the History of Mathematics*, Vol. 28 (3), 114-120.

Cooper, S.; Cooper, A. (2013). The Father of Local History and the duplication of the exchequer, 1480. *BSHM Bulletin: Journal of the British Society for the History of Mathematics*, Vol. 28 (3), 121-123.

Corry, L. (2013). Geometry and arithmetic in the medieval traditions of Euclid's *Elements*: a view from Book II. *Archive for History of Exact Sciences*, Vol. 67 (6), 637-705.

Craik, A. D. D. (2013). In search of Thomas Knight: Part 2. *BSHM Bulletin: Journal of the British Society for the History of Mathematics*, Vol. 28 (3), 124-131.

Diamantopoulos, J. C. D.; Woodburn, C. J. (2013). Maya Geometry in the Classroom. *Loci Convergence* (August 2013).

Lamandé, P. (2013). Quelques conceptions de la théorie des proportions dans des traités de la seconde moitié du dix septième siècle. *Archive for History of Exact Sciences*, Vol. 67 (6), 595-636.

Meyer, W. (2013). External Influences on U.S. Undergraduate Mathematics Curricula: 1950-2000. *Loci Convergence* (August 2013).

Osada, N. (2013). Isaac Newton's 'Of Quadrature by Ordinates'. *Archive for History of Exact Sciences*, Vol. 67 (4), 457-476.

Paoletti, T. J. (September, 2013). Are All Infinities Created Equal?. *Mathematics Teacher*, Vol. 107 (2), 98.

Paoletti, T. J. (November, 2013). Cracking Codes and Launching Rockets. *Mathematics Teacher*, Vol. 107 (4), 266.

Pesic, P. (2013). Poincaré Euler's Musical Mathematics. *The Mathematical Intelligencer* 35(2), 35-43.

Rowe, D. E. (2013). Poincaré Mathematics Made in Germany: On the Background to Hilbert's Paris Lecture. *The Mathematical Intelligencer* 35(3), 9-20.

Ruffner, J. A. (2013). The snare of simplicity: the Newton–Flamsteed correspondence revisited. *Archive for History of Exact Sciences*, Vol. 67 (4), 415-455.

Tiesdale, D. (2013). Sieve of war: the legacy of Jitsuro Nagura. *BSHM Bulletin: Journal of the British Society for the History of Mathematics*, Vol. 28 (3), 143-155.

Tucker, A. (2013). The History of the Undergraduate Program in Mathematics in the United States. *The American Mathematical Monthly*, October.

Verdun, A. (2013). Leonhard Euler's early lunar theories 1725–1752. *Archive for History of Exact Sciences*, Vol. 67 (5), 477-551.



Announcements of events



Forthcoming BSHM meetings

(The British Society for the History of Mathematics)

<http://www.dcs.warwick.ac.uk/bshm/events.html#forthcoming>

1. BSHM Christmas Meeting (also Robin Wilson's 70th Birthday!)

A 'History of Mathematics' Day. - An eclectic mix of interesting historical issues.

Following on from the success of our 2012 Christmas meeting, a daytime meeting with a mixture of invited speakers and members' talks.

The Birmingham and Midland Institute, Margaret Street, Birmingham, B3 3BS.

Within easy walking distance of Birmingham's New Street Station.

Saturday 7th December. 10 am. to 5 pm.

Non members welcome, reduced fee for members. Pre-registration will be needed and a charge payable by attendees. Includes coffee and buffet style lunch.

2. Research in Progress

The annual meeting for research students in the history of mathematics to speak about their work.

The Queen's College, Oxford OX1 4AW, Saturday 22 February 2014, 11am to 5pm. The keynote speaker is Dr. Jackie Stedall, BSHM Neumann Prize winner 2013!

3. Brass for Brain

7:30pm, Wednesday 19th March 2014 Room A17, Mathematical Sciences Building, University of Nottingham, University Park, Nottingham NG7 2RD.

A talk by Raymond Flood on Lord Kelvin and tide prediction.

A joint meeting of the BSHM and the East Midlands IMA branch.

4. Napier 400 Meeting

Friday 4th April 2014: JOINT MEETING with the James Clerk Maxwell Foundation to commemorate the 400th Anniversary of John Napier's invention of logarithms.

In Edinburgh, with talks at the Clerk Maxwell Foundation, 14 India Street, in the morning, and with visits to the 'Napier Exhibition' at the National Museum of Scotland, and to 'Napier Tower' (John Napier's original home) after lunch.

5. Counting, Calculation and Measurement

Summer Weekend, Rewley House, Oxford Saturday 21-22 June 2014.

The annual joint weekend with the Oxford University Department of Continuing Education.

6. Famous physicists and mathematicians from Belfast

One day event at Queen's University Belfast. Wednesday, 25th June 2014.

Joint meeting with the Institute of Physics.

AMS-MAA Joint Mathematics Meetings

January 15-18, 2014

Baltimore, USA

<http://jointmathematicsmeetings.org/jmm>

The conference will include the following presentations on the history of mathematics and its use in teaching:

- An MAA Short Course on “Reading, Writing and Doing the History of Mathematics: Learning the Methods of Historical Research” will precede the AMS-MAA Joint Mathematics Meetings (January 13–14, 2014, Baltimore, Maryland)
- MAA Invited Address by historian of mathematics William Dunham on "Heron, Newton, Euler, and Barney,"
- MAA-AMS Invited Address by number theorist Carl Pomerance on "Paul Erdős and the Rise of Statistical Thinking in Elementary Number Theory,"
- MAA Guest Lecture by mathematics historian Fred Rickey on "The Notebooks of George Washington on Arithmetic, Geometry, Trigonometry, Logarithms and Surveying,"
- MAA Guest Lecture by museum curator William Noel on "Eureka! The Archimedes Palimpsest,"
- MAA Minicourse on "Historical Role-Playing in the Mathematics Classroom,"
- MAA Minicourse on "Heavenly Mathematics: The Forgotten Art of Spherical Trigonometry,"

- AMS Special Session on "History of Mathematics,"
- AMS Special Session on "Nineteenth Century Algebra and Analysis,"
- MAA Contributed Paper Session on "The History of Mathematical Communities," and
- MAA Contributed Paper Session on "Putting a Theme in a History of Mathematics Course."

(Information from <http://www.maa.org/publications/periodicals/convergence/convergence-calendar>)

HPM Americas Spring Meeting

April 11-13, 2014
Normal, Illinois, USA

The History and Pedagogy of Mathematics (HPM) Americas Section will hold its Spring Meeting at Illinois State University (ISU) in Normal, Illinois, Friday - Sunday, April 11-13, 2014.

The HPM Americas Meetings information:
<http://www.hpm-americas.org/meetings/>

Canadian Society for the History and Philosophy of Mathematics – 2014 Annual Meeting

May 25-27, 2014
St. Catherines, Ontario, Canada

The 2014 Annual Meeting will be held with the Canadian Federation for the Humanities and Social Sciences (CFHSS) at Brock University in St. Catherines, Ontario on May 25-27. In celebration of the 400th birthday of logarithms, "Early Scientific Computing" will be the special session topic at the meeting.

Michael R. Williams, professor emeritus of the University of Calgary, will be the Kenneth O. May lecturer at the 2014 Annual Meeting. His accomplishments include serving as president of the IEEE Computer Society, as editor-in-chief of the Computer Society Press, as editor-in-chief of the *Annals of the History of Computing* and being awarded an honorary doctorate from the University of Glasgow for his contributions to the history of computing. He has published widely in 16th through 18th century computing, including Napier and his colleagues.

<http://www.cshpm.org/meeting/index.php>



CERME 9

February 4-8, 2015

Prague, Czech Republic

The next Congress of ERME will be held in Prague, Czech Republic, February, 4-8, 2015. Local chair will be Nada Vondrova. Program Chair will be Konrad Krainer.



ICME-13

***International Congress on
Mathematical Education***

July 24-31, 2016

Hamburg, Germany

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The views expressed in this Newsletter may not necessarily be those of the HPM Advisory Board.

Please pass on news of the existence of this newsletter to any interested parties.

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These and other news of the HPM group are also available on the website

<http://groupnpm.wordpress.com/>

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Items for the Newsletter should be sent to the editors, preferably by email (see addresses below).

The Newsletter appears three times a year with the following deadlines for next year.

No.	Deadline for material	Sent to distributors
85	12 February 2014	1 March 2014
86	12 June 2014	1 July 2014
84	12 October 2014	1 November 2014

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A note from the Editors

The Newsletter of HPM is primarily a tool for passing along information about forthcoming events, recent activities and publications, and current work and research in the broad field of history and pedagogy of mathematics. The Newsletter also publishes brief articles which they think may be of interest. Contributions from readers are welcome on the understanding that they may be shortened and edited to suit the compass of this publication.