

VI Colloquium on History and Technology in the Teaching of Mathematics (HTEM) 15–19 July 2013, The Federal University of São Carlos (UFSCar)

The Colloquium on History and Technology in the Teaching of Mathematics was first organized in 2002 in Rio de Janeiro, as the initiative of a group of teachers and researchers to create a space for discussion of problems of Mathematics Teaching in the diverse environments of education, in a scenario of increasing presence of technology in educational environments and research findings on the role of history of mathematics in teacher education.

Since then, the colloquium has been organized every two years, with the last event held from 25 to 30 July 2010, in Recife, PE. The year 2012 marked the 10th anniversary of HTEM, but the celebration of this milestone was postponed to 2013, with a view to completion in July 2012 of XII ICME (International Congress on Mathematical Education) of ICMI-IMU in Seoul, South Korea.

The VI HTEM will be held from 15 to 19 July 2013, celebrating its 10 years, and is organized by the Department of Mathematics, Federal University of São Carlos (DM-UFSCar) and the Graduate Program in Teaching of Exact Sciences (PPGECE) UFSCar.

The HTEM has been building over the past years the space conceived from the beginning, in which teachers and researchers can update and share their knowledge, insights and experiences, articulating the components of History, Technology, Education and Mathematics.

The achievements of the biennials HTEM received support from various associations/societies, as SBM (Brazilian Mathematical Society), SBEM (Brazilian Society of Mathematical Education), SBMAC (Brazilian Society of Applied and Computational Mathematics), and SBHMat (Brazilian Society of History of Mathematics) and received financial support from funding agencies such as FAPERJ, FAPE, FAPESP, CAPES and CNPq.

The scientific program provides invited and plenary talks, panel discussions, poster and oral presentations, mini-courses and workshops on the following topics:

- T1 - Methods of Teaching Mathematics in the presence of technology: classroom education and distance learning; interactive teaching and learning environment, inclusive education, etc.;
- T2 - Technological Instruments and Computational Programs in virtual environments for Mathematics Teaching;
- T3 - Planning and execution of tasks and activities with the use of technology;
- T4 - Assessment for learning in virtual environments with or without use of technology;
- T5 - Integrating History of Mathematics in teaching, in the presence of new technologies;
- T6 - History and Technology in Mathematics of Planet Earth: lectures, mini-courses, exhibition, etc., showing the mathematics that the study of planet Earth brings to disclosure, with emphasis on the role of technology in this study.

The schedule of the Roundtables of VI HTEM provides: Panel on The Klein Project for 21st century, of the ICMI-IMU, with the participation of The Klein Project in Mathematics, in Portuguese language (SBM-CAPES); Panel on Mathematics of Planet Earth (event linked to Mathematics of Planet Earth project); Panel on Education of Teachers with the knowledge of the use of technology in the teaching and the learning of Mathematics.

Over the years, HTEM won the attention and participation of international researchers, and since the 4th. Edition, in Rio de Janeiro, has permanent International Steering Committee for the event,

comprised of internationally renowned researchers who support the principles of the Colloquium and bring an international perspective to it. The Commission consists of:

Michèle Artigue (U. Paris Diderot, France)
Masami Isoda (U. Tsukuba, Japan)
David Tall (U Warwick, UK)
Evelyne Barbin (U. Nantes, France)
Fidel Oteiza (Chile)
João Bosco de Carvalho Pitombeira (UFRJ, Brazil)
Gert Schubring (UFRJ, Brazil, U. Bielefeld, Germany)
Luiz Carlos Guimarães (UFRJ, Brazil)

The Scientific Program Committee is comprised of the steering committee and also of:

Yuriko Baldin Y (coordinator)
Franck Bellemain
Eleni Bisognin
Marilena Bittar
Humberto Bortolossi
João Bosco de Carvalho Pitombeira
Tânia M M Campos
Elisa Maria Esteves Lopes Galvão
Victor Giraldo
Veronica Gitirana
Mary Alice Gravina
Luiz Carlos Guimarães
Francisco R Mattos
Sergio Nobre
José A Salvador
Joao Carlos V Sampaio
Tanya Schmitt
Gert Schubring

The HTEM has always given special attention to teacher education and to the need for continuing education that allows the teacher to follow the scientific discoveries and the updating of the presence of technology in educational settings. Therefore, the scientific program will include on July 18 and 19 the Winter Workshop of the PPGECE, the Graduate Program in Teaching of Exact Sciences (Mathematics and Physics Teaching) of UFSCar, held annually in July Curriculum as part of its Professional Master Course for teachers of elementary and high school. In 2010, this event had an international character on the topic of Learning Objects, with support from CAPES and was a satellite event of the V HTEM of Recife.

The organizers of the VI HTEM plan to include, in the activities of the workshop focused on teachers, presentations of students of the PPGECE and, by invitation, the students of the PROFMAT program, from universities of São Carlos and the region, to promote an exchange between teachers and provide a scientific environment for teachers which are graduate students. The support of SBM is sought so as the PROFMAT of the region of São Carlos can participate profitably.

The year 2013 is also the year of the project Mathematics of Planet Earth, and the organizers believe the opportunity as fortuitous, to include in their programming, lectures and activities related

to this project, promoting interdisciplinarity mediated by technology and the significant opportunity to integrate the spirit of HTEM researchers from Applied and Computational Mathematics, supported by SBMAC and from Mathematics supported by SBM.

A preliminary list of invited speakers includes:

Michèle Artigue (U. Paris Diderot) – confirmed
David Tall (U Warwick) – confirmed
Masami Isoda (U. Tsukuba) – confirmed
Hans-Georg Weigand (U. Würzburg) – confirmed
Jaime Carvalho e Silva (U. Coimbra)
Ferdinando Arzarello (U. Torino) - confirmed
Colette Laborde (U. Grenoble)
Stephen Hegedus (U. Dartmouth)
Humberto Bortolossi (U. Federal Fluminense) – confirmed
Gert Schubring (UFRJ, U. Bielefeld) – confirmed
Francisco Cesar Polcino Millies (UFABC)
Angel Ruiz (Costa Rica) – confirmed
Vincenzo Bongiovanni (UNIBAN) -confirmed
Chronis Kynigos (National and Kapodistrian U. of Athens)