



*The First International Symposium
of Mathematics
and its Connections of the Arts and Sciences,*

*The University of Education, Schwäbisch
Gmünd, Germany, 19th – 21st May 2005*

Organizers:

*Astrid Beckmann, Claus Michelsen,
Bharath Sriraman*

Call for papers

The success of Topics Study Group 21 (Relations between mathematics and other subjects of art and science) at ICME-10 in Denmark has led us to believe that a strong interest exists within the education, liberal arts, mathematics and science research communities to study the relations between the disciplines of mathematics, arts and science.

The utopian goal is to create a humanistic approach to education, one that unifies various strands of the curricula as opposed to dividing it. Ideally the purpose of education is to create well-rounded individuals akin to the great thinkers of the Renaissance. That is, individuals who are able to pursue multiple fields of research and appreciate both the aesthetic and structural/scientific connections between the arts and the sciences. In this endeavour mathematics can be thought of as a unifying bridge, whose underlying structure intertwines multiple strands in the mosaic of Knowledge.

The organisers invite you to attend The First International Symposium of Mathematics and its Connections to the Arts and Sciences at The University of Schwäbisch Gmünd, Germany 19th - 21st of May 2005..

The goals of the Symposium are

- 1) to bring together researchers who share this vision of unifying the arts, mathematics, and the sciences in the school and university curricula
- 2) to articulate a common research agenda
- 3) to create networks of researchers with common interest
- 4) to focus on creating a scholarly publication through which the work of the group may be transmitted.

We are interested in (1) theoretical/philosophical papers, (2) content specific papers, which demonstrate new and unusual connections/relations between mathematics, arts and the sciences, as well as (3) papers which report on successful didactic approaches that connect mathematics, arts and the sciences in the classroom and the curriculum. We are also interested in research that examines cross-cultural mathematics that bridges the arts and the sciences. We encourage researchers world wide to contribute papers to this symposium. We will welcome regular papers (6-10 pages) as well as short papers (2-6 pages). Paper formatting and submission guidelines are found at www.mathematik.ph-gmuend.de/macas

Papers are to be submitted electronically as MS-word attachments to all the three organizers. The deadline for receipt of all papers is January 9, 2005. The deadline for registration is March 30, 2005.

If you have further questions, please contact any of the organisers of the Symposium (email addresses are given).

Astrid Beckmann, University of Schwäbisch Gmünd (astrid.beckmann@ph-gmuend.de)

Claus Michelsen, University of Southern Denmark (cl.mich@dig.sdu.dk)

Bharath Sriraman, The University of Montana (sriramanb@mso.umt.edu)