

Announcements

Literature

TIMSS – Third International Mathematics and Science Study

The first national reports have now been published for most participating countries

Denmark

Matematik og naturvidenskab i folkeskolen – en international undersøgelse
[*Mathematics and science in the elementary school - an international study*]

Author: Peter Weng, 1996

Order: DPI, Hermodsgade 28, 2200 København, Phone: +45 31810140

Norway

13-åringers kunnskaper og holdninger i realfag i et internasjonalt perspektiv
[*Thirteen year olds' knowledge and beliefs in mathematics and science in an international perspective*]

Author: Marit Kjærnsli & Svein Lie, 1996

Order: Department of Teacher Education and School Development University of Oslo, Postboks 1099, 0316 Oslo, Norge

Phone: +47 2 854 151/56, Fax: +47 2 567636

Sweden

TIMSS. Svenska 13-åringars kunskaper i matematik och naturvetenskap i ett internationellt perspektiv. [TIMSS. Swedish thirteen year olds' knowledge in mathematics and science in an international perspective]

Publisher: National Agency for Education, Stockholm, 1996

The report is available at

<http://www.umu.se/edmeas/timss/publ/sv114/index.html>

Singapore

National report for Singapore, 1996

The report is available at

<http://socrates.moe.edu.sg/new/dec/contents.htm>

Another interesting report from TIMSS is:

Persuing Excellence. A Study of U.S. Eighth-Grade Mathematics and Science Teaching, Learning, Curriculum, and Achievement in International Context. Initial Findings from the Third International Mathematics and Science Study

from US Department of Education – National Center for Statistics, 1996.

<http://www.ed.gov/NCES/timss/97198.html>

For more information about the TIMSS results, see

<http://www.nctm.org/INDEX.HTM>

<http://ustimss.msu.edu/frame.htm>

<http://www.csteep.bc.edu/timss>

<http://www.nap.edu/bookstore/enter2.cgi?search>

The TIMSS results are also discussed in

• *Education at a Glance - OECD Indicators*

• *Education at a Glance - Analysis*

Education at a Glance, the annual compilation of OECD education indicators, is this year published in two companion volumes. The 400-page Education at a Glance - Indicators presents 43 indicators as tables and graphs, with notes to help interpret them. The shorter, 75-page Education at a Glance - Analysis discusses some of the key themes that emerge from the data, and the lessons the results carry for education systems (attached a selection of indicators).

Publisher: OECD, Paris & Routledge, 1996

<http://www.oecdwash.org/PRESS/PRESRELS/pub9683.htm>

Current State of Research on Mathematical Beliefs III

Proceedings of the MAVI-3 Workshop, August 23-26, 1996

Editor: Erkki Pehkonen

The report is available from:

Department of Teacher Education, P.O. Box 38 (Ratakatu 6 A)

FIN 00014 University of Helsinki, Finland

Phone: +358 9 191 8112, Fax: +358 9 191 8114

Selected Topics from Mathematics Education

This is the title of a serie of reports from a cooperative project between the Department of Teacher Education and School Development, University of Oslo, Norway and the University of Usti nad Labem, The Czech Republic, 1992 - 1996. 5 reports have been published. No 6 is planned to be published at the beginning of 1997.

Editor: Ragnar Solvang.

For more information and for order, contact R. Solvang, Department of Teacher Education and School Development, University of Oslo, Postboks 1099, 0316 Oslo, Norge

Didakometry No 76: Bibliography of Literature on Dysmathematics.

Author: Olof Magne, 1996

This is a bibliography on dysmathematics, dyscalculia, disabilities, special education etc. (almost 3 000 references) with some comments. References from English, German, French, Swedish, Polish, Norwegian etc. written sources. It is probably the most extensive bibliography in this area.

Order: Lund University, School of Education, Department of Educational and Psychological Research, Thomas Hallström, P.O. Box 23501, SE-200 45 Malmö, Sweden
Phone: +46 40 325356, fax: +46 40 325210

Mathematics, Pedagogy, and Secondary Teacher Education. Reweaving the Frayed Braid

Authors: Thomas J. Cooney, Stephen I. Brown, John A. Dossey, Georg Schrage & Erich Ch. Wittmann, 1996

This is a new series of books for preservice and inservice programs, integrating content and pedagogy in a teacher education context. The collection includes six booklets:

- *Thinking About Being a Mathematics Teacher*, challenging teachers to reflect on their goals and experiences related to mathematics education,
- *Developing a Topic Across the Curriculum: Functions*, examining the ways in which mathematical content and teaching pedagogy are intertwined and inseparable,
- *Designing Teaching: The Pythagorean Theorem*, exploring what might be called a teacher's "design kit" in relation to the Pythagorean Theorem and how the kit can be expanded to other mathematical topics,
- *Analyzing Subject Matter: Fundamental Ideas of Combinatorics*, suggesting that combinatorial problems offer students a realistic opportunity to develop mathematics,
- *Modeling with Functions*, focusing on how models based on functional relationships can provide powerful mathematical experiences for students,
- *Posing Mathematically*, helping teachers see the importance of problem design to student exploration.

Publisher: Heinemann.

<http://www.heinemann.com/hbbc/43507101.html>

Changing the Subject. Innovations in Science, Mathematics and Technology Education

Editors: P. Black & J. Atkin

This book is based on 23 case studies from 13 different countries. It includes summaries of all the case studies and how they could be ordered.

Publisher: OECD & Routledge, 1996.

<http://www.thomson.com/routledge/default.html>

POME 9 (1996). Philosophy of Mathematics Education Journal

The Philosophy of Mathematics Education Newsletter is now available on Internet:
<http://www.ex.ac.uk/~PERnest/pome/pome9.htm>

Assessment and Realistic Mathematics Education

Author: M. van den Huevel–Panhuizen, Utrecht: Freudenthal Institute, 1996

<http://www.fi.ruu.nl/en/>

Changing the Culture: Mathematics Education in the Research Community

Editor: D. Naomi Fisher, 1995

Publisher: American Mathematical Society (AMS)

<http://www.bookshop.co.uk/85581078/webbookw.exe?0821803832>***Proceedings of the Eighteenth Annual Meeting of the North American Chapter of the International Group of the Psychology of Mathematics Education***

Editors: E. Jakubowski, D. Watkins, & H. Biske, 1996.

<http://www.unifr.ch/psycho/pme/forthconf.html>

Address: ERIC/CSMEE Publications, The Ohio State University, 1929 Kenny Road, Columbus, OH 43210-1080

Order: eshbaugh.4@postbox.acs.ohio-state.edu (Susan Eshbaugh)***The Development of Mathematical Skills, First Edition***

Author: Yvette Soloman

Publisher: Routledge, 1997

<http://www.thomson.com/routledge/default.html>***History of Mathematics and Education: Ideas and Experiences. Studien zur Wissenschafts-, Sozial- und Bildungsgeschichte der Mathematik, Band 11***

Editors: Hans Niels Jahnke, Norbert Knoche & Michael Otte, 1996

Publisher: Vandenhoeck & Ruprecht

<http://www.geist.de/vandenhoeck/VERLAG-E.html>***Reconceiving Mathematics Instruction: A Focus on Errors***

Author: Raffaella Borasi, 1996

Publisher: Ablex

For more information, please contact: Ablex Publishing Corporation,

355 Chestnut street, Norwood, New Jersey 07648, USA

Phone: +1 201 767-8450, Fax: +1 201 767-6717

Enriching Primary Mathematics with IT

Author: Janet Ainley

Developing a Scheme of Work for Primary Mathematics

Author: Sue Atkinson

Publisher: Hodder and Stoughton, 1996

<http://www.u-net.com/hodder/>***Beiträge zum Mathematikunterricht 1996.***

Vorträge auf der 30. Bundestagung für Didaktik der Mathematik vom 4. bis 8. 3. 1996 in Regensburg, Germany

Editor: Kurt Peter Müller

http://www.uni-giessen.de/~gcq1/gdm_publ.htm

Science and Mathematics Education Papers, SAMEpapers – 1996

This is a yearbook that provides an avenue of publications for original papers (essays, research articles, and critical comments) in the fields of science, technology, computing and mathematics education and related studies with a particular emphasis on papers that link academic research and criticism with classroom teaching.

SAMEpapers are published by the Centre for Science, Mathematics and Technology Education Research of the University of Waikato, New Zealand. For more information, please contact

CSMTER Publications, Centre for Science, Mathematics and Technology Education Research University of Waikato, Private Bag 3105, Hamilton, New Zealand
<http://www2.waikato.ac.nz/smter/>

Mathematics Teaching in the Early Years. An Investigation of Teachers' Subject Knowledge

Author: Carol Aubry

Challenging Ways of Knowing in English, Mathematics and Science

Editors: Dave Baker, John Clay & Carol Fox

Publisher: Falmer Press, 1996

<http://www.tandf.co.uk/books/subjeduc.htm>

Children Doing Mathematics

Authors: Terezinha Nunes and Peter Bryant, 1996

Publisher: Blackwell

<http://www.blackwellpublishers.co.uk/default.htm>

or more direct

<http://www.blackwellpublishers.co.uk/scripts/webbooke.idc?ISBN=0631184724>

Mathematical (and related) Journals on Internet

<http://rugth10.th.rug.nl/~leeuwen/mathjournals.html#zoeken>

The Journal of Statistics Education

This is an electronic journal on postsecondary teaching of statistics available on Internet: <http://www2.ncsu.edu/ncsu/pams/stat/info/jse/homepage.html>

The Future of the Standards. A Chance to Express Your Views

NCTM has started a project for rewriting the Standards for curriculum, teaching and assessment.

<http://www.nctm.org/>