



Mathematics on the Cote d'Azure



ECIS CONFERENCE, NICE ACROPOLIS, NICE, FRANCE

Friday 19th – Sunday 21st November 2004

A packed programme of 19 specialist sessions from esteemed international practitioners, making this a highly valuable ECIS conference for mathematics teachers: a great opportunity to learn and to share ideas.

FRIDAY 19th November

• 1030 – 1900 EXHIBITIONS OPEN

Don't miss this opportunity to find out about the latest publications and software. You will be able to try out the new **Autograph 3** on Stand 136.

MATHEMATICS FORUM: Investigations and Technology for Secondary School Mathematics

• 1100 - 1245 **IB MATHEMATICS PORTFOLIO WORK – 1** [Lecture, 16-18]

Interpreting the New Internal Assessment Criteria

JAMES NAKAMOTO, IB Examiner, Mathematics Department Chair, Sir Winston Churchill Secondary School, Vancouver BC, Canada

• 1400 – 1445 **TECHNOLOGY FOR THE SECONDARY CLASSROOM – 1** [Lecture, 14-18]

How the newly revised 'use of technology' criteria can be successfully addressed by students using GDC and Excel, Sketchpad and Autograph 3. Delegates may find it useful to bring a laptop to this session.

MIKE WAKEFORD, Head of Mathematics, Skagerak International School, Norway

• 1500 - 1545 **OPEN BUSINESS MEETING OF THE ECIS MATHEMATICS COMMITTEE**

Round table discussion

TANYA MORLAND, Chair, ECIS Mathematics Committee, Head of Mathematics, British Int. School, Cairo, Egypt

• 1600 - 1645 **NON-EUCLIDEAN GEOMETRIES FOR MS/HS STUDENTS** [Lecture, 16-18]

Come discover 'Taxicab' and 'spherical' geometry: where circles are sometimes squares, the sum of the angles of a triangle is not 180 degrees ...

SCOTT GENZER, High School Mathematics Department Chair, American School of Warsaw, Poland

• 1700 - 1745 **GRAPHICS CALCULATORS FOR INTERMEDIATE USERS**

This session will focus on extending the uses of the TI-83 in IB Mathematics and Mathematical Studies with lists and matrices to address topics in vectors, statistics, and logic.

JAMES NAKAMOTO and **TANYA MORLAND**

Primary Education

• 1300 – 1345 **WHO'S AFRAID OF THE MATHEMATICAL WOLF? – 1** [Lecture, 4-8]

Teaching mathematics through an inquiry based approach

AVRIL MARTIN, Kindergarten Teacher and Mathematics Committee Chair, St John's International School, Belgium

SATURDAY 20th November

• 1845 – 1800 EXHIBITIONS OPEN

• 0900 - 1045 **IB MATHEMATICS PORTFOLIO WORK – 1** [Lecture, 16-18]

This session is intended to give teachers of IB Mathematics HL a chance to design portfolio tasks with the new criteria and achievement levels in mind.

JAMES NAKAMOTO

• 1100 - 1245 **TECHNOLOGY FOR THE SECONDARY CLASSROOM – 2** [Lecture, 13-16]

Productivity tools for the busy mathematics teacher including Word ('Unicode' symbols, drawing toolbar, hyperlinks, managing images and tables), Excel (sequences, slider bars, sampling), Snagit (screenshots), Turbo Demo (flash tutorials: "author once, learn anywhere"), web resources, and working 'off-line'.

This session will also address the pros and cons of white boards, teaching styles, voting gadgets, banks of laptops, tablet PCs and using NetOp in the computer lab. Delegates may find it useful to bring a laptop to this session.

MIKE WAKEFORD and **DOUGLAS BUTLER**, Director, ICT Training Centre, Oundle School, Peterborough, UK

• 1300 - 1445 **TEACHING MATHEMATICS, SCIENCE AND TECHNOLOGY** [Lecture, 7 – 18]

... in a way that is guaranteed to get young boys and girls excited and involved, including Lego Mindstorms

CHRIS PROCTOR, International Schools Consultant, LEGO Educational Division, Slough, Berkshire, UK

• 1300 - 1345 **WHO'S AFRAID OF THE MATHEMATICAL WOLF? - 2** [Lecture 4-8]

This session will question how a teacher's own feelings about mathematics influences the way the subject is taught.

AVRIL MARTIN

• 1400 - 1445 **SPRINGBOARD: A NEW MIDDLE SCHOOL/HIGH SCHOOL PROGRAM FOR ENGLISH AND MATH** [Lecture, 11-18]

Recently launched in the US, SpringBoard is a new and innovative program for middle schools and high schools designed to prepare students for success in rigorous end-of-High School course- work in programs like AP and IB.

BERNIE LONGBOY, Assistant Director, AP International Services, The College Board, NY, USA and **ROBERT DIYANNI**, Director K-12 International Services, The College Board, NY, USA

SATURDAY - continued

• 1500 -1645 **TECHNOLOGY FOR THE SECONDARY CLASSROOM – 3** [Lecture, 13-18]

A technology approach to MYP or IGCSE, using Excel, Web resources, Sketchpad and Autograph 3, to raise motivational levels and understanding. Delegates may find it useful to bring a laptop.

MIKE WAKEFORD and **DOUGLAS BUTLER**

• 1500 - 1545 **ASSESSMENT IN MATHEMATICS CLASSROOMS** [Lecture 15-16]

This is an opportunity to share ideas and best practice. Being specific to IGCSE Mathematics, it offers detailed information on relevant resources and practical teaching tips.

KEITH BLACK, CIE Senior Examiner, University of Cambridge International Examinations, Cambridge, UK

• 1600 – 1745 **JOB EMBEDDED STAFF DEVELOPMENT AND MATHEMATICS IN THE EARLY YEARS** [Lecture, 4-10]

The establishment of a job embedded staff development model underlies a comprehensive collaborative approach to change and involves all members of the learning community.

PETER SUTTON, Mathematics Coordinator - Primary, Chinese International School, Hong Kong, China and **ANNE-MARIE STACEY**, Head of Curriculum, Instruction and Staff Development, Chinese Int. School, Hong Kong, China

• 1600 – 1645 **USING OUR ENVIRONMENT AS INSPIRATION** [Lecture, 11-18]

Projects for her math students based on the cultural attractions that the city of Barcelona. The presenter is convinced that part of mathematical education should include the observation and appreciation of what surrounds us.

ANA MARIA DIANDERAS, Mathematics Teacher, Barcelona, Spain



• 1700 – 1745 **STRATEGIES FOR PROBLEM SOLVING** [Lecture, 7-18]

Development of mathematical problem solving skills is a challenge to every math teacher. A series of problems will be solved and discussed following the procedure learned.

SAHAR BOKOSMATY ZAAROUR, Math Instructor, International College, Beirut, Lebanon

SUNDAY 21st November

• 0845 - 1230 EXHIBITIONS OPEN

• 0900 – 1045 **TECHNOLOGY FOR THE SECONDARY CLASSROOM – 4** [Lecture 16-18]

A technology approach to Standard/Higher Level IB Mathematics, or AS/A Level, using of Excel, Web resources, Sketchpad and Autograph 3.

MIKE WAKEFORD and **DOUGLAS BUTLER**

• 1100 - 1145 **COMMUNICATING MATHEMATICAL IDEAS** [Lecture, 7-18]

Strategies and techniques that help teachers in developing students' mathematical communication skills in reading, understanding and interpreting mathematical problems.

SAHAR BOKOSMATY ZAAROUR, Math Instructor, International College, Beirut, Lebanon

• 1200 – 1245 **TEAM MATHEMATICS COMPETITION FOR 12 AND 13 YEAR OLDS**

The different rounds of the UK Competitions for 12/13 year olds involve the pupils in a variety of mathematical activities based on teamwork, speed, reasoning and fun.

JACQUI LEWIS, Mathematics Teacher, St Julian's School, Carcavelos, Portugal