Mathematics Teachers Conference 2006
Theme: Enhancing Mathematical Reasoning

1st June 2006
National Institute of Education
1 Nanyang Walk
Singapore

Jointly organized by:
- Association of Mathematics Educators
- Mathematics and Mathematics Academic Group,
  National Institute of Education, NTU

Programme
0800 – 0845 h  Registration
0900 – 0930 h  Opening of Conference
0930 – 1000 h  Tea Break
1000 – 1100 h  Keynote I
  Primary - The nature of mathematical reasoning & how to teach it
    Dr Yeap Ban Har & Mr Lee Ngan Hoe
  Secondary - Enhancing mathematical reasoning at secondary school level
    A/P Wong Khoon Yoong
  Junior College - Mathematical reasoning in pre-university education
    Prof Ling San

1100 – 1200 h  Keynote II
  Primary - The nature of mathematical reasoning & how to teach it (contd)
    Dr Yeap Ban Har & Mr Lee Ngan Hoe
  Secondary - Enhancing students’ reasoning via thoughtful problem-solving activities
    A/P Berinderjeet Kaur
  Junior College - Mathematical reasoning: From secondary to pre-university mathematics education
    Dr Toh Tin Lam

1200 – 1400 h  Lunch & Tour of Stalls (Books & Teaching Materials)
1400 – 1600 h  Concurrent Workshops - Participants to attend one
Primary
P1 - Developing mathematical reasoning – The role of calculators by A/P Ng Swee Fong
P2 - Using short open-ended questions to develop and assess mathematical reasoning by A/P Foong Pui Yee
P3 - Enhancing mathematical reasoning through journal writing in the primary math classroom by A/P Douglas Edge & Mr Eric Chan
P4 - Games in primary mathematics classrooms by A/P Koay Phong Lee
P5 - Generating mathematics investigative tasks from a given stem by Miss Chua Kwee Gek

Secondary
S1 - Geometric reasoning through folding circles by Ms Teo Soh Wah & Mrs Tan Kum Fong
S2 - Mathematical reasoning in algebra by Dr Toh Tin Lam
S3 - Using investigative tasks to enhance mathematical reasoning by Mr Joseph Yeo B.W.
S4 - Strategies to enhance students’ reasoning in mathematics at the secondary level by Dr Jaguthsing Dindyal
S5 - Engaging lower secondary pupils through mathematical reasoning by Dr Joseph Yeo Kai Kow
S6 - Use of IT in the teaching of statistics by A/P Yap Sook Fwe

Junior College
J1 - Using a graphing calculator to extend mathematical reasoning skills by Dr Ng Wee Leng
J2 - Newton's binomial series and the computation of pi by Dr Paul Shutler

1600 – 1630 h  Tea break
1630 – 1700 h  Closing address & presentation of tokens of appreciation.

Abstracts of keynote lectures and workshops are available at our webpage: http://math.nie.edu.sg/ame/
You may also download registration form and details.
You are advised to register early as places are limited.

Closing date for conference registration: Saturday 15th April 2006.
Registration of Conference – 7.45 am onwards Outside NIE Lecture Theatre 1
Opening of Conference: - 9.00 am @ NIE Canteen
Tea – break: – 9.30 am @ NIE Canteen

Keynote sessions: 10.00 – 12.00 noon

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<th>Level</th>
<th>Venues</th>
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<tr>
<td>Primary</td>
<td>NIE 2-01-LT 7 / NIE 3-01-LT 8</td>
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<tr>
<td>Secondary</td>
<td>*NTU LT 19A</td>
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<tr>
<td>Junior College/ Polytechnic</td>
<td>NIE 2-01-LT 5</td>
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* Teachers to assemble outside NIE LT1. Ushers will lead them to NTU LT 19A

Lunch – 12.00 noon till 2 pm @ NIE Canteen

Workshops: 2.00 – 4.00 pm @ NIE premises

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<td>J1 Using a graphic calculator to extend mathematical thinking</td>
<td>7-01-LT 4</td>
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<td>J2 Newton’s binomial series and the computation of pi</td>
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<td>P1 Developing mathematical thinking – the role of calculators</td>
<td>5-01-TR 43A</td>
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<td>P2 Using short open-ended questions to develop and assess mathematical thinking</td>
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<td>P4 Games in primary mathematics classrooms</td>
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<td>P5 Generating mathematics investigative tasks from a given stem</td>
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<td>S1 Geometric reasoning through folding circles</td>
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<td>S2 Mathematical reasoning in algebra</td>
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<td>S4 Strategies to enhance students’ reasoning in mathematics at the secondary level</td>
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<td>S5 Engaging lower secondary pupils through mathematical reasoning</td>
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<td>S6 Use of IT in the teaching of statistics</td>
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Tea-break – 4.00 – 4.30 pm @ Foyer of LT1

Closing Ceremony & Presentation of tokens of appreciation by Director of NIE – 4.30 pm @ NIE Lecture Theatre 1