



International Commission on
Mathematical Instruction



THE AGA KHAN UNIVERSITY

CANP4 East Africa

THE FOURTH CAPACITY NETWORK PROJECT



PROGRAMME GUIDE

INTERNATIONAL COMMISSION OF
MATHEMATICAL INSTRUCTION
&
AGA KHAN UNIVERSITY
INSTITUTE FOR EDUCATIONAL
DEVELOPMENT EAST AFRICA

1st to 12th September 2014

WEEK ONE 1- 5 Sept 2014

Sunday August 31, 2014 - REGISTRATION 12.00 noon – 6.00 pm.

	09.00 - 10.30	11.00 - 12.30	1.30 - 03.30	3.30 - 05.00
Mon 1	<p>Welcome and Opening of CANP4:</p> <p>Co-Chairs: Prof. Anjum Halai, Aga Khan University Institute for Educational Development EA Prof. Ferdinando Arzarello Università di Torino Via Carlo Alberto, Italy President ICMI</p>	<p>B Public Lecture 1: Prof. Edward Lungu University of Botswana</p>	<p>L Workshop 1a - Doing Mathematics and reflection on the process Facilitator: Dr. Alphonse Uworwabayeho, Kigali Institute of Education Rwanda Workshop 1b - Mathematical Representation Facilitator: Prof. Pierre Arnoux - University of Aix-Marseille (département de Mathématiques and Institut de Mathématiques de Luminy) France</p>	<ul style="list-style-type: none"> • Networking over tea • Display of materials • Open informal conversation • Mathematical games and puzzles
Tue 2	<p>Regional Presentation 1: Mapping the mathematics syllabus in Kenya, Uganda and Tanzania Dr. Geoff Tennant Aga Khan University Institute for Educational Development EA Dr. Simon Karuku</p>	<p>R Regional Presentation 2: Achievement in mathematics: Comparative analysis from East Africa Dr. Geoff Tennant and Veronica Sarungi Aga Khan University Institute for Educational Development EA</p>	<p>U Workshop 2a - Achievement in mathematics and issues for teaching and learning Facilitator: Masaba Nasur Mwambu, Secondary Science and Mathematics Teachers' (SESEMAT) Program Uganda Workshop 2b - Assessment of mathematics learning Facilitator: Aga Khan University Institute for Educational Development</p>	<ul style="list-style-type: none"> • School visits (afternoon shift) • Other
Wed 3	<p>Plenary Lecture 1: Bridging practices: Research led professional development in secondary mathematics – some lessons and results Prof. Jill Adler, University of Witwatersrand, South Africa</p>	<p>E Public Lecture 2: Mathematics in Science Jean-Juste Ngome, International Basic Sciences Program UNESCO</p>	<p>N Workshop 3a - Problem Solving in Mathematics Facilitator: Centre for Mathematics, Science and Technology Education in Africa (CEMASTE) Kenya Workshop 3b: Mathematics for Teaching Facilitator: Jill Adler</p>	
Thu 4	<p>Regional Presentation 3: Teaching and Teacher Education: Comparative perspectives from East Africa Prof. Anjum Halai and Peter Kajoro, Aga Khan University Institute for Educational Development EA</p>	<p>A Panel Presentation: Teacher development in mathematics education Kenya (CEMASTE), Uganda (SESEMAT), Tanzania (MAT), Rwanda</p>	<p>C Workshop 4a - Language and mathematics Facilitator: Prof. Anjum Halai Workshop 4b - Improving Teacher Education: Facilitator: Dr. Samuel Bengmark</p>	
Fri 5	<p>Plenary Lecture 2: ICT in Mathematics Education Dr. Samuel Bengmark - Department of Mathematical Sciences. Chalmers University of Technology Gothenburg Sweden</p>	<p>K Workshop 5a - Technology and Mathematics Education Facilitators: Dr. Alphonse Uworwabayeho, Peter Kajoro and Dr. Samuel Bengmark</p>	<p>H Workshop 5a - Mathematics & Technology Education Continued Workshop 5b - Lesson Study in Mathematics Facilitator: Prof. Jill Adler</p>	
Sat 6	<p>Half Day Social Event: Excursion One: National Museum, Tinga Tinga market Oysterbay. Excursion Two: Village Museum, Mwenge Market, Coco Beach</p>			

WEEK TWO 8 -12 Sept 2014

	09.00 - 10.30	11.00 - 12.30	1.30 - 03.30	3.30 - 05.00
Mon 8	<p>Plenary Lecture 3: Mathematics for Planet Earth</p> <p>Prof. Christiane Rousseau- Department of Mathematics and Statistics University of Montreal, Canada</p>	<p>B Plenary Lecture 4: The Klein Project</p> <p>Facilitator: Prof. Ferdinando Arzarello</p>	<p>L Workshop 6a - Mathematics for Planet Earth</p> <p>Facilitators: Prof. Christiane Rousseau with Veronica Sarungi</p> <p>Workshop 6b - Gender and Mathematics</p> <p>Facilitator: Nancy Nui CEMASTE Kenya</p>	<ul style="list-style-type: none"> • Networking over tea • Display of materials • Open informal conversation
Tue 9	<p>Plenary Lecture 5: Mathematical research: an introduction through games</p> <p>Prof. Pierre Arnoux - France</p>	<p>R Panel Presentation: a) Capacity Development for Mathematics Teaching in Rural and Remote Communities in Tanzania.</p> <p>Prof. Andrew Binde University of Dodoma; b) Silas Mirau; Nelson Mandela African Institute of Science & Technology Tanzania</p>	<p>U Workshop 7a - Recreation mathematics through games</p> <p>Facilitators: Prof. Pierre Arnoux & Mussa Muhamed, Aga Khan University Institute for Educational Development EA</p> <p>Workshop 7b - Introducing Algebra</p> <p>Facilitator: Dr. Geoff Tennant</p>	<ul style="list-style-type: none"> • Mathematical games and puzzles • School visits (afternoon shift) • Other
Wed 10	<p>Plenary Lecture 6: Mathematics in African cultural practices</p> <p>Prof. Paulus Gerdes Mozambican Ethnomathematics Research Centre Mozambique and Senior Advisor for Research and Quality at ISTE University Mozambique</p>	<p>A Panel Presentation: Cultural issues in mathematics education</p> <p>a) Kenya (Kogolla), b) Uganda (Masamba) c) Rwanda (Uworwabayeho)</p>	<p>C Workshop 8a - Mathematics in African cultural practices</p> <p>Facilitator: Prof. Paulus Gerdes</p> <p>Workshop 8b - Argumentation and proof in the classroom</p> <p>Facilitator: Prof. Ferdinando Azarello</p>	
Thu 11	<p>International Council for Science (ICSU)</p>	<p>The Way Forward: Creating a regional network</p> <p>Chair: Prof. Ferdinando Arzarell and Prof. Anjum Halai</p>	<p>Workshop 10a - Doing mathematics and reflection on the process</p> <p>Facilitator: Patrick Kogolla CEMASTE</p> <p>Workshop 10b - Textbook Analysis: optimal use of teaching resources</p> <p>Facilitator: Peter Kajoro</p>	
Fri 12	<p>The way forward Country Group Deliberation</p>	<p>K The way forward Presentation to whole group</p>	<p>H Farewell and Departure</p>	

