International Science Programme

2nd Announcement

THE 4TH EAUMP CONFERENCE
20th - 22nd August, 2020
AND
THE 5TH NETWORK MEETING RESEARCH GROUPS IN MATHEMATICS IN SUB-SAHARAN AFRICA
17th - 19th August, 2020
Venue: The Ngurdoto Mountain Lodge, Arusha, Tanzania

THEME

Strengthening collaborative and sustainable relevant research in Pure and Applied Mathematics, and Mathematical Statistics.

The Department of Mathematics, University of Dar es Salaam will be hosting the 4th EAUMP Mathematics Conference from 20th to 22nd, August 2020. The conference is organized by the Department in collaboration with the Eastern African Universities Mathematics Programme (EAUMP), Sida bilateral programme (Sweden) and the International Science Programme (ISP), Sweden. The conference will be held in the tourist city of Arusha, Tanzania from 20th to 22nd August, 2020 at the **the Ngurdoto Mountain Lodge**. The participants will comprise of academics researchers, postdoctoral fellows and postgraduate students from the Eastern African region, the rest of Africa and abroad.

Network Meeting for Research Groups in Mathematics in the region started in 2016 and have been taking place annually since then, through the support of Sida bilateral and EAUMP programmes. The aim of these meetings is promote research in the region and to encourage research through regional research groups. The first and second meetings took place in March 2016 and February, 2017 at the Sida Headquarters in Sweden. Consequent meetings took place in Entebbe, Uganda (2018) and Bishoftu, Ethiopia (2019). The fifth research network meeting will take place at **the Ngurdoto Mountain Lodge**in Arusha, Tanzania, from 17th to 19th August 2020. It is anticipated that the participants will be mainlybe from Uganda, Tanzania, Kenya, Rwanda, Ethiopia, Mozambique, Zambia, West Africa, as well as some European countries. The participants will comprise of ISP and Sida supported PhD students and Postdoctoral fellows, supervisors and mentors, senior researchers in mathematic. Other interested researchers are welcome to register for attendance.

GOALS OF THE CONFERENCE AND NETWORK MEETING FOR RESEARCH GROUPS

- Promote regional and international collaboration in training, research and outreach.
- Provide a forum for interaction of African Mathematicians and others from outside Africa in the view of sharing experiences in mathematics training, research and dissemination activities.

PARTICIPATION IN THE NETWORK MEETING FOR RESEARCH GROUPS

It is intended that the 5th Network Meeting Research Groups will comprise of members who are already established in their respective research groups or areas of specialization; new potential members are advised to apply.

CONFERENCE TOPICS

Research Papers and Poster presentations are expected in the following areas though not limited to:

- Algebra
- Analysis (Real, Complex and Functional)
- Topology and Geometry
- Dynamical Systems
- Mathematical Biology
- ODE's, PDE's and Inverse Problems
- Financial/Insurance Mathematics
- Combinatorics
- Fluid Dynamics
- Operations Research
- Numerical Analysis
- Mathematical Statistics
- Mathematics Education

ABSTRACTS FOR THE EAUMP CONFERENCE

Abstracts are invited on research results in the areas as listed above. For those wishing to make a presentation. The abstract should be written in English and not exceeding 300 words, with a maximum of 7 keywords and 4 references. The LATEX template that should preferably be used can be found at http://www.eaump.org/conferences/. The template includes title, name(s) of author(s), affiliation, email address, telephone number(s) and should outline the aims, methodology, results, discussion and conclusions. Kindly email your abstract, LATEX and PDF file, to: Egbert Mujuni (**egbertmujuni2016@gmail.com**), copied to: David Koloseni (**davykol@yahoo.co.uk**) and Martin Singull (**martin.singull@liu.se**).

CONFERENCE SPECIAL ISSUE

The 4th EAUMP conference organizers are working with Tanzania Journal of Science (TJS) to publish selected, refereed papers from the conference in a special issue of the journal. Authors are invited to submit an original manuscript or review paper for publication. Detailed information on TJS can be found at http://journals.udsm.ac.tz/index.php/tjs. More information on the special issue is available on the conference website

Invited speakers

- Michael Dorff, Brigham Young University, USA
- Livingstone Luboobi, Strathmore University, Kenya
- Dietrich von Rosen, SLU/LiU, Sweden
- Rikard Bögvad, SU, Sweden
- Abdou SENE, Senegal

Local organizing committee

- Dr. Sylvester Rugeihyamu, University of Dar es Salaam (UDSM), Tanzania (Chair)
- Dr. David Koloseni, UDSM (Secretary)
- Prof. Eunice Mureithi,UDSM (Head of Dept)
- Prof. Allen Mushi, UDSM
- Dr. James Makungu, UDSM
- Dr. Shaban Nyimvua, UDSM
- Dr. Theresia Marijani, UDSM
- Dr. Egbert Mujuni, UDSM
- Dr. Herieth Rwezaura, UDSM
- Prof. John M. Mango, Makerere University, Uganda

Scientific committee

- Prof. Martin Singull, Linköping University, Sweden(Chair)
- Prof. Addisalem Abathun, Addis Ababa University, Ethiopia
- Prof. Juma Kasozi, Makerere University, Uganda
- Prof. João Paulo Munembe, Eduardo Mondlane University, Mozambique
- Prof. Allen Mushi, UDSM, Tanzania
- Dr. Betty K. Nannyonga, Makerere University, Uganda
- Dr. Japhet Niyobuhungiro, University of Rwanda, Rwanda
- Prof. Fanja Rakotondrajao, University of Antananarivo, Madagascar
- Dr. Layla Sorkatti, University of Khartoum, Sudan
- Dr. Isaac D. Tembo, University of Zambia, Zambia
- Prof. Hamidou Toure, University of Ouagadougou, Burkina Faso
- Prof. Patrick Weke, University of Nairobi, Kenya

Finance committee

- Prof. Bengt Ove Turesson,ISP, Uppsala University and Linköping University, Sweden (Chair)
- Prof. Leif Abrahamson, ISP, Uppsala University, Sweden
- Prof. John M. Mango, Makerere , University, Uganda
- Dr. Sylvester Rugeihyamu, University of Dar es Salaam
- Prof. Eunice Mureithi, University of Dar es Salaam

CONTACTS

- Dr. Sylvester Rugeihyamu
  Email: **rugeihyamu@yahoo.com,**
  Phone: +255713775365
- Prof. Eunice Mureithi
  Email: **ewambui02@gmail.com,**
  Phone: +255683059964
- Prof. Martin Singull
  Email: **martin.singull@liu.se**,
  Phone: +4613281447

IMPORTANT DATES

- **30th April 2020:** Deadline for registration to the 5th Network Research Groups Meeting.
- **30th June 2020:** Deadline for registration to the 4th EAUMP conference registration.
- **30th June 2020:** Deadline for submission of conference abstracts.
- **31st July 2020:** Deadline for submission of papers for conference proceedings.

FINANCIAL SUPPORT

Limited financial assistance to cater for (full/partial) travels and/or local expenses will be provided to some members depending on the availability of sponsors. However, every effort should be made by participants to secure full financial support. Candidates will be selected by the organizers, and will be informed on the results at least one month before the respective event.

EXCURSION

There will be an excursion at the end of the conference to one of the following top tourist attractions in Tanzania: The slopes of Mount Kilimanjaro, Tarangire National Park, Ngorongoro Crater and Arusha National Park. More updated details can be found in the conference website.

VISA

Visa may be required for international visitors on arrival at Kilimanjaro International Airport or other ports of entry. Please check with the respective local Embassy for details and other requirements. The government of Republic of Tanzania requires proof of yellow fever vaccination if you are traveling from a country with risk of yellow fever.

ACCOMMODATION

During the 5th Network Research Groups Meeting all participants will stay at the Ngurdoto Mountain Lodge for full board accommodation at USD **110** per night per person.

The official venue for the EAUMP conference is also Ngurdoto Mountain Lodge. The conference organizers negotiated a charge of USD 75 per person per night for bed and breakfast. However, there are many other hotels near the venue with bed and breakfast ranging from USD 25 to USD 110. For more details on accommodation visit the website of the conference.

MORE INFORMATION AND REGISTRATION

For more information and registration see the web pages

- 4th EAUMP Conference - http://eaump.org/eaump2020
- 5th Network Research Group meeting- https://liu.se/en/article/fifth-network-meeting-sida-isp-2020