



Lao People's Democratic Republic
Peace Independence Democracy Unity Prosperity

National University of Laos
Faculty of Natural Sciences

No.....191.... / FNS
Vientiane Capital, November 26, 2019

12th ICMMEDC 2019 Report

The local organizing committee of the 12th ICMMEDC 2019 in Laos is highly appreciated to report you that the conference was held between October 30 to November 3, 2019 at National University of Laos

1. The meaning and Importance of the Conference

The 12th ICMMEDC is a stage of gathering Mathematicians of developed and developing countries to present their researches on Mathematics, promote the collaboration of Mathematical side among ASEAN countries and others. This conference is the 12th, the first five times were organized in Cambodia and the last five times were held in Myanmar

The Lao PDR is a country that is running the 5-year developing plans of the Lao government and the human resource development is one of the 4 target plans of Lao PDR which was stated in the IX Lao Party Congress. Therefore, upgrading the academic affairs of people plays an important role in development of the country. In order to reach that goal, international cooperation is necessary because it can be the stage of exchange knowledge, strengthen the academic works especially the researches conducted. It also encourages Lao Mathematicians to do researches that approach to the international level. Therefore, being the host of this conference, could give chance to Lao Mathematicians to present their work, listen to experienced professors from different countries to present wonderful researches in different areas of Mathematics with interesting discussions and exchanges knowledge among the participants. It also marks the collaboration between National University of Laos and the South East Asian Mathematical Society.

2. Purposes

- To collaborate and exchange researches' works
- To gain new knowledge for Lao Mathematicians and researchers
- To create international stage for Lao researchers to present their work
- To upgrade Lao Mathematicians to approach international standard

- To exchange academic knowledge between Lao teachers who teach Mathematics in Teacher Training College, in Universities of Laos and experienced professors from oversea
- To encourage Lao Mathematician to recognize the importance of Mathematical development

3. Conference's organizing and participants

Local and international organizers

- Local Organizers

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| 1. Assoc. Prof. Dr. Bounphanh TONPHENG, Dean of FNS, | President |
| 2. Assoc. Prof. Sackmone SIRISACK, Vice-Dean of FNS, | Vice-President |
| 3. Mrs. Khampou INTHAVONE, Vice-Head of Maths. Department, | Member |
| 4. Dr. Phoui SOUKSOMVANG, Vice-Head of Maths. Department, | Member |
| 5. Assoc. Prof. Dr. Thongloon VILAYTHONG, Head of Research Div., | Member |
| 6. Assoc. Prof. Dr. Oudone PHANALASY, Maths. Lecturer, | Member |
| 7. Mr. Vilaysack SIKOTHVONGSA, Vice-Head of Maths. Dep., | Secretary |
| 8. Mrs. Pinkham THANAVANH, Maths. Lecturer, | coordinator |

- International Organizers

1. Prof. Jose Maria P. Balmaceda
President of SEAMS, University of the Philippines, The Philippines
2. Prof. Graeme Fairweather
Mathematical Reviews, American Mathematical Society, USA
3. Prof. Khin Myo Aye
Department of Mathematics, University of Mandalay, Myanmar
4. Prof. Edy Baskoro, University of Indonesia, Indonesia
5. Prof. Le Tuan Hoa, University of the Vietnam, Vietnam
6. Prof. Wanida Hemakul, Chulalongkorn University, Thailand
7. Prof. Morrakot Khebchareon, Chiang Mai University, Thailand
8. Prof. Rosihan M.Ali, University of Malaysia, Malaysia
9. Prof. Francesco Pappalardi, Università Degli Studi Roma Tre, Italy
10. Prof. Carlene P. C. Pilar-Arceo, University of the Philippines, The Philippines
11. Prof. Chan Roath, Ministry of Education, Cambodia
12. Prof. Toh Tin Lam, National Institute of Education, Singapore
13. Prof. Padmanabhan Seshaiyer, George Mason University, USA
14. Prof. Michel Waldschmidt, University Pierre and Marie Curie, France

4. Content

The conference was run by the agenda of it (from October 30 to November 3, 2019) at National University of Laos as the following:

- October 30-31, 2019, there was a Pre-Conference Workshop and 12 topics were presented that covered different areas of mathematics including PDE, Number theory, Algebra, Mathematical Finance, Computation, Method of Teaching

- November 1, 2019 there was a conference that began with Her Excellency Madame Sengdeuane LARCHANTHABOUN the Minister of Ministry of Education and Sports gave an Opening Address. After that the important issues of Mathematics in different fields were presented by experienced professors from oversea. The total number of topics of that day was 20 including 3 plenary talks, 9 invited speakers, and 8 contributed speakers.

- November 2, 2019, there were 20 presentations including 3 plenary talks, 1 public lecture, 11 invited speakers, and 3 contributed speakers

- November 3, 2019, there were 2 plenary talks and 1 panel table and closing ceremony and the chair of the local organizer announced that the 13th ICMMEDC which will be held in Laos again during October 28 to November 1, 2019.

Note: November 1-3, 2019, there were 2 sessions as session A and B. During the coffee breaks, organizing committee have discussed about trend of Mathematics and how improve Lao Mathematician to be closer to the international level.

5. Advantages, disadvantages and lessons learn

1. Advantages

- Because of the Lao government has an action plan toward the human resource which was stated in the IX Lao Party Congress. Therefore, the Ministry of Foreign Affairs, Ministry of Education and Sports, National University of Laos, and Faculty of Natural Sciences gave very good cooperation with us to issue all involved documents to host such an important conference.

- Because of good cooperation and preparation of the local and international organizers of the conference

- Every work was run smoothly especially the participants and the speakers have prepared their work thoroughly and the chairmen also followed the agenda strictly.

- All presentations have been published in the proceeding of the 12th International Conference on Mathematics and Mathematics Education in Developing Country at National University of Laos, and all presenters and participants have got certificate

2. Disadvantage

- The budget of the conference was very limited
- Research work of the local people was still limited in terms of number and the area of researches' conducted
- Some participants cannot follow up the schedule of the conference smoothly.
- We lacked of vehicle to pick up the provincial guests from their hotel to the conference hall because we did not have enough money to hire a bus.

7. Lessons learn

- We should request from other international and local organizations to give support the conference
- The board committee should check every work strictly
- The presenters should prepare their work well before giving a presentation in order to save time and make audiences understand easily
- The content of the presentation should match to the knowledge of the audiences, and relate to present time, more practical, less theory.

President of Local Organizer

Bounphanh TONPHENG