



IndoMS Newsletter

Issue 002 - October 2022

News from the Indonesian Mathematical Society

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Letter from IndoMS

The Indonesian Mathematical Society (IndoMS) was founded in 1976 in Bandung, Indonesia. The Society aims to build networks for the development of mathematics research and education, provide input to relevant education agencies on mathematics curricula and teaching in accordance with national education goals, and apply the results of mathematical studies to increase community welfare. To achieve these goals, the society holds conferences, workshops, and outreach events for researchers, students, educators, and government bodies.

As a large proportion of IndoMS members are also mathematics professors and educators, the Society is especially concerned with mathematics education. Over the last two years, the Society has held webinars, discussion sessions, and online workshops focusing on changes in educational policy and curriculum implementation.

In this issue we highlight some of our contribution both in the local level and international. We report the presence of our president in the International Mathematical Union (IMU) in Helsinki and the experience of our member in Abel visiting scholarship program. As in our previous issue, we report our activities in supporting members on research dissemination, short courses, workshops, and community empowerment programs.

Last but not least, without realizing it, we entered to the end of our service in IndoMS this period. This month we will elect our new president, then committee member. We hope our effort to produce this two editions will sustain and next committee pursuing this effort to spread the news from Indonesian mathematician to the world.

Keep in touch!

*Sincerely,
IndoMS Newsletter Team*

IndoMS President Participation at the IMU General Assembly



The President of INDOMS, Prof. Dr. rer. nat. Indah Emilia Wijayanti, S.Si., M.Sc., attended the 19th IMU General Assembly. The General Assembly (GA) is the main body of the International Mathematical Union (IMU). It admits IMU members, elects the IMU Officers and the members of the IMU Executive Committee, establishes commissions, determines the budget, and decides about the IMU Statutes, the rules of conduct, and many other issues.

The GA consists of Delegates appointed by the Adhering Organizations, the Executive Committee, and the Representatives of Associate and Affiliate Members. Guests and Observers may be invited additionally. Only Delegates have voting rights. The IMU Statutes contain a detailed description of the rights and duties of the GA. The GA meets once in four years, usually at a venue and date close to an International Congress of Mathematicians (ICM). The 19th IMU General Assembly was held on 3–4 July 2022 in Helsinki, Finland.

Several important agendas were carried out at the meeting, including the election of the President of the IMU, the chairman of the IMU Committees, amendments to the IMU statutes, the reports of the IMU Committees, the ICM 2026 bidding, etc.

A Report From Abel Visiting Scholarship Program Grantee

Dr. Ikha Magdalena, the coordinator for cooperation commission IndoMS, received Abel visiting scholarship program. Under this program she got a chance to visit Prof. Dominic E. Reeve at Swansea University, Wales United Kingdom. Dr. Magdalena and Prof. Reeve conducted studies on the research topic, assisted by two students and a post-doctoral fellow: the students were Wang Xin, from Swansea University, Alvedian Mauditra Aulia Matin, from Institut Teknologi Bandung, and Dr. Jose Horrillo-Caraballo, a post-doctoral fellow at Swansea University, was in charge of the experiment. Over the course of this visit, a non-hydrostatic two-layer model for waves generated by bottom movement was validated by analyzing data collected from an experiment conducted at the host university. Experimental datasets were reviewed, a model was formulated, the laboratory set-up was used to modify model parameters to fit them, and plate movement was modeled based on experimental bottom movement data. Simulations were then run and analyzed. Dr. Magdalena gave a talk on the effect of seagrass on wave attenu-

ation to an audience consisting of students and faculty members from Swansea University's Mathematics and Engineering Departments.



Dr. Magdalena spent her time at host institution from Feb 18 to March 21, 2022. During her visit, she yielded one paper on the experiments conducted in Swansea University to investigate tsunami generation by bottom movement, one paper on a two-layer non-hydrostatic numerical model for tsunami generation with validation using an analytical solution and experimental data. These papers are being prepared for submission. Furthermore, the run-up process has been simulated experimentally and will be the subject of further research. The relationship between Swansea University and the Bandung Institute of Technology was also strengthened by this visit.

IndoMS Research Visit Program

The Indonesian Mathematical Society organizes the IndoMS Research Visit Program to enhance collaboration among mathematicians in ASEAN, which can form the basis for long-term research partnerships. The Visiting Research grant is intended to increase the number of papers in collaboration with mathematicians in ASEAN countries for young PhDs.

This program was held on Monday, July 18, 2022. This activity invites all mathematicians with a doctoral degree holder in Mathematics or Mathematics Education. This grant is open for those who is less than or equal to 45 years old and use the grant to visit mathematicians in ASEAN countries or invite mathematicians from other countries. The minimum period of visit is 2 weeks and during his/her visit he/she conduct research collaborations.

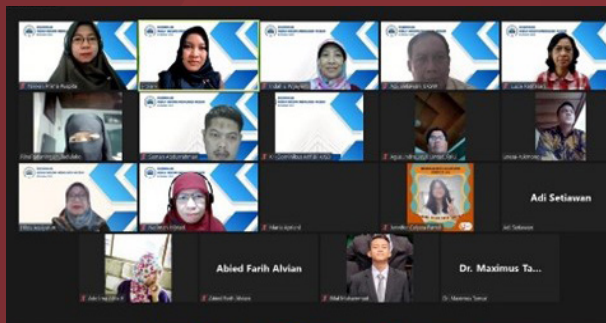
Dissemination of IndoMS Mengabdi Untuk Negeri in 2022

The Dissemination of IndoMS Mengabdi Untuk Negeri Grants in 2022 has been carried out online via zoom on Saturday, October 8, 2022, 08.00-10.00 WIB. Mengabdi Untuk Negeri is an initiative carried out by IndoMS to strengthen the collaboration on mathematics related community empowerment in Indonesia.

In this event, the grantee of the program present how they do preparation and implementation of the program.

IndoMS School

IndoMS sponsored the implementation of the IndoMS School to succeed the Merdeka Learning Campus Merdeka (MBKM) movement by inviting the Mathematics/Mathematics Education Study Program to work together in its implementation. This activity has invited all IndoMS management areas to actively participate in proposing proposals for the implementation of IndoMS School 2022. This activity is held online to provide access to all students throughout Indonesia.



We had six grantee for this program, i.e., Dr. Niken Prima Puspita, S.Si., Drs. Agus Indrajaya, M.Sc., Dr. Adi Setiawan, Rukmono Budi Utomo, M.Sc. Dr. Maximus vTamura, M.Pd., and Saman Abdurrahman, S.Si., M.Sc.

One of the grantee, Dr. Maximus Tamur, M.Pd, the head of the implementing team for the joint program of Mathematics Education FKIP Indonesian Catholic University of Santu Paulus Ruteng, Mathematics Education FKIP Sanata Dharma University, and Mathematics Education FKIP Widya Mandira University Kupang, presented a GeoGebra-assisted ethnomathematics-based learning workshop for the Mathematics MGMP of SMP Manggarai Regency, East Nusa Tenggara.

In addition, Dr. Niken Prima Puspita, S.Si., reported on productive forest management activities for forest conservation in Lampung Province using scalar multiplication operations on the algebraic structure of the R_n module over the ring matrix $M_n(R)$. This activity is open to the public and broadcast on indoMS' YouTube.

In 2022, only one school was held, a significant decrease instead of eight schools was conducted last year. It was due to the time shifting of August-September 2022 and at the same time we experienced the starting offline lectures in almost all universities in Indonesia. This probably the reason, at last from our perspective, why we had not many universities participating in this initiative.

The only IndoMS School this year was held on August 15-September 3 2022, involving four regions (Central Java, southern Sumatra, Kalimantan, Maluku) and 5 study programs from Gadjah Mada University, Lampung University, Lambung Mangkurat University, Diponegoro University, and Khairun University. This school take a topic in Linear Algebra and Research Development and successfully receive 60 participants actively involved in the program. The school invited prominent Profs and lecturers in the area, such as Prof. Dr. Sri Wahyuni (University of Gadjah Mada), Prof. Dr. Indah Emilia Wijayanti (Gadjah Mada University),

Prof. Wamilia, Ph.D. (University of Lampung), Prof. Dr. La Zakaria (University of Lampung), Dr. Nikken Prima Puspita, M.Sc. (Diponegoro University), Dr. Lucia Ratnasari, M.Si. (Diponegoro University), Dr. Naimah Hijriyati (University of Lambung Mangkurat), Dr. Fitriani (University of Lampung), Dr. Ahmad Faisol (University of Lampung), Uha Isnaini, Ph.D. (University of Gadjah Mada), Dr. Ida Kurnia Waliyanti (University of Khairun), and Nurdin Bahtiar, S.Si., M.T. (Diponegoro University). While the reviewer Dr. Muchtadi Intan Detiena (Bandung Institute of Technology) and Hilda Assiyatun, Ph.D. (Bandung Institute of Technology).

Journal of IndoMS (JIMS)

The Journal of IndoMS (JIMS)'s newest issue has been published. JIMS is a fully open access journal maintained and edited by IndoMS. JIMS Volume 28, Number 2 can be accessed [here](#).

Editor-in-Chief Prof. Indah Emilia Wijayanti (Gadjah Mada University), Executive Editor Dr. Fajar Adi Kusumo (Gadjah Mada University), and Managing Editor Dr. Hazrul Iswadi (Universitas Surabaya) are proud to present this issue.

IndoMS 21st National Mathematical Conference

IndoMS has been holding the National Mathematics Conference (KNM) since 1976. Each instance of the Conference is planned collaboratively with Mathematics Departments at various universities in Indonesia.

In this year, IndoMS will collaborate with the Department of Mathematics and the Department of Mathematics and Natural Sciences at the University of Mataram to organize the 21st National Mathematics Conference (KNM XXI), October 18-19 2022. The theme is "The Role of Mathematics in the Era of Smart Society 5.0 in the Implementation of Independent Learning Programs". This event will be held virtually to comply with the Covid-19 pandemic safety protocol.

KNM XXI activities in 2022 will be coupled with a mini-symposium on Algebra organized by the Algebra community. The scope of KM XXI material includes Algebra, Combinatorics, Statistics, Actuarial, Computational Mathematics, Operations Research, Geometric Analysis, Computational Mathematics, and Mathematics Education.

The main speakers who will be invited are Prof. Dr. Nor Haniza Sarmin (University of Technology Malaysia) and Syafri bahar, S.Si., M.Sc. (Vice President of Data Science, GO-JEK). Speakers will be invited to present lectures on their areas of expertise. The speakers who will be invited include Prof. Basuki Widodo (November Ten Institute of Technology), Prof. Tatag Yuli Eko Siswono (Surabaya State University), Prof. I Nengah Suparta (Ganesha University of Education), Prof. Budi Conscience (Padjajaran University), Dr. Intan Muchtadi-Alamsyah (Bandung Institute of Technology), Novriana Sumarti, Ph.D. (Bandung Institute of Technology), Prof. Komang Dharmawan (Udayana University), Prof. Wamiliiana (University of Lampung), and Prof. Supama (Gadjah Mada University).

IndoMS Congress 2022

The congress is a necessary momentum for IndoMS Management and all its members to openly reflect on how the organization has run during the two years since the inauguration of the IndoMS Management 2020-2022. The 2022 IndoMS Congress is planned to be held online on Wednesday, 19 October 2022, at 08.00-13.00 WIB.

The participants of the 2022 IndoMS Congress are all IndoMS members, as evidenced by a valid membership certificate. The IndoMS 2022 congress secretariat will be in the Mathematics Study Program, FMIPA, Udayana University, Bali.

The IndoMS 2022 congress committee will be chaired by Dr. G K Gandhiadi, MT (Udayana University) and coordinated with the secretary Dr. I Wayan Puja Astawa, M.Stat. Sci (University of Education Ganesha). They will be assisted by I Gusti Ayu Made Srinadi, S.Si., M.Sc. (Udayana University) to handle the minutes of the event.



HIMPUNAN MATEMATIKA INDONESIA
The Indonesian Mathematical Society (IndoMS)

Kongres IndoMS Tahun 2022

AGENDA:

1. Pengesahan Usulan Hari Matematika Indonesia
2. Pemilihan Penyelenggara IICMA VI Tahun 2023
3. Pemilihan Penyelenggara KNM XXII Tahun 2024
4. Pemilihan Presiden IndoMS 2022 – 2024

MEKANISME :

1. Semua proses pemungutan suara akan dilaksanakan secara online melalui aplikasi yang dikembangkan oleh tim IT INDOMS.
2. Anggota yang berhak melakukan pemungutan suara adalah anggota yang terdaftar di database INDOMS dan sudah memiliki kode PIN. Anggota yang terdaftar bisa dilihat melalui tautan / link berikut : <http://member.indoms.id/public/member>
3. Pengambilan PIN melalui website indoms.id pada menu Kongres, dengan memasukkan Nomor Anggota dan Email yang didaftarkan pada saat pendaftaran anggota INDOMS.
4. Waktu pengambilan PIN dijadwalkan mulai hari Selasa tanggal 11 Oktober 2022 pukul 00.01 sampai dengan hari Selasa tanggal 18 Oktober 2022 pukul 19.00 WITA
5. Pemungutan suara (voting) dilaksanakan pada tanggal 19 Oktober 2022 selama 1 jam, mulai pukul 11.00 sd 12.00 WITA

Hari/ Tanggal : Rabu, 19 Oktober 2022
Waktu : 08.00 - 13.00 WITA
Tempat : Daring Via Zoom

 <https://bit.ly/KongresIndoMS2022>
Meeting ID: 878 7849 4012
Passcode: 021286

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Highlights on Sabang to Merauke Mathematics Events

In this space, we documented events organized by the chapter of IndoMS all around Indonesia in 2021-2022

Southern Sumatra Region

Public Lecture on Strategies to Get through to Reputable Journals in the Field of Mathematics/Statistics

Time : 20 December 2021

Place : Online

Latex Training for Research Papers and Books in Mathematics/Statistics

Time : 22 & 29 October 2022

Place : Online

Webinar Utilizing Opensource Software for Teaching and Learning: GNU Octave, Python, and Geogebra

Time : 5 November 2021

Place : Online

Actuarial Series Webinar: Mathematical Models on Life Insurance and Loss Insurance

Time : 12 November 2022

Place : Online

Papua and West Papua Region

Online Seminar on Mathematics and Its Teaching with the theme: Utilization of Mathematics Software in Learning Models.

Time : 16 April 2022

Place : Online

Central Sumatra Region

OBE Curriculum Development (OBE Curriculum Workshop)

Time : 12 November 2021

Place : Online

Webinar Series "Research Trends in Mathematics, Mathematics Education, Statistics, and Actuarial"

Time : 27 March 2021

Place : Online

Tips and Tricks for Making Community Service Proposals

Time : 19 June 2021

Place : Online

General lectures in mathematics and mathematics education

Time : 22 October 2022

Place : Online

General Lecture on Mathematics (study of real analysis/ combinatorics/ algebra/geometry and its application)

Time : 29 October 2022

Place : Online

West Java-DKI-Banten Region

Sharia Insurance Business & Career in Indonesia (Opportunities & Challenges)

Time : 30 October 2021

Place : Online

Online Summer Course on Mathematical Modeling in Life & Material Sciences

Time : 7-23 August 2021

Place : Online

Financial Risk Management in Product Design and Implementation

Time : 29 July 2021

Place : Online

Mathematics Study Program MBKM Curriculum Workshop, Pakuan University

Time : 6 May 2021

Place : Online

Mathematics Webinar Series: Algebraic Integer Relation

Time : 19 March 2021

Place : Online

Bali and Nusa Tenggara Region

Mathematics Colloquium FMIPA Mataram University with the theme "U-Exact and U-Complex in the Module"

Time : 20 February 2021

Place : Online

Algebra Public Lecture-Community of Algebra Interests (KUA-KPA) Series 2 with the theme "Vector Space R_2 , R_3 , and R_n "

Time : 27 February 2021

Place : Online

Gamatika Research Club webinar with the theme "Applied Mathematics Research"

Time : 23 May 2021

Place : Online

IndoMS Peduli (Flood NTB and NTT)

Time : 16-20 April 2022

Place : NTB and NTT

Maluku Ambon Region

"MATHEMATICS LEARNING USING SOWISO SOFTWARE FOR MATHEMATICS TEACHERS AT THE HIGH SCHOOL OF MALUKU PROVINCE"

Time : 14 March 2022

Place : Online

Kalimantan Region

FINAL PROJECT INSPIRATION WEBINARS IN THE FIELD OF MATHEMATICAL MODELS AND EDUCATIONAL RESEARCH METHODOLOGY

Time : 10 April 2021

Place : Online

WEBINAR Socialization-Collaboration of Mathematics Software Workshop and its Clusters 2021

Time : 25 September 2021

Place : Online

Webinars on Motivation and Self-Preparation Strategies for Students Entering the Post-Lecture Work World

Time : 3 April 2021

Place : Online

Host : Rida Maheasy

WEBINAR OF SCIENTIFIC ARTICLE WRITING IN AN INTERNATIONAL JOURNAL

Time : 20 March 2021

Place : Online

Socialization-Collaboration of the 2022 Mathematics Software Workshop and its Clusters working with IndoMS Kalimantan-Lab. Data Science JMTI ITK-PS Mathematics FMIPA ULM-PS Mathematics ITK-PS Statistics-PS Actuarial Science.

Time : 17 September 2021

Place : Online

DIY-Central Java Region

The Saveetha School of Engineering Online Seminar on Implementation of fuzzy graphs in traffic light problems.

Time : 10 June 2022

Place : Online

The 5th IndoMS International Conference on Mathematics and Its Applications (IICMA)

Time : 20 November 2021

Place : Online

The InaCombs Online Seminar on Uncertainty Analysis and Optimization Modeling

Time : 26 March 2022

Place : Online

Workshop on Using Geogebra in Learning

Time : 1, 2, 8, 9 October 2022

Place : NTB and NTT

Learning Problem Solving and Statistics during the Covid-19 Pandemic using Google Classroom and Geogebra for High School Mathematics Teachers in the Kalimantan Region

Time : 9 – 23 October 2021

Place : Online

East Java Region

IndoMS East Java Congress

Time : 19 December 2021

Place : Online

IndoMS Events

OCTOBER 2022

Konferensi Nasional Matematika XXI

Date : 18-19 October 2022
Organizers : IndoMS, Central Chapter
Registration : <http://knm21.unram.ac.id/register/>

DECEMBER 2022

The Seventh Conference of Ethnomathematics

Date : 17 Ddecember 2022
Organizers : UNY Yogyakarta
Registration : TBA

COMING SOON

IndoMS International Conference on

Date : TBA
Organizers : IndoMS, Central Chapter
Registration : <http://PendaftaranCalon-PenyelenggaraICMAVI2023>