



# BOOK OF PROGRAM

## EASE-ICMScE JOINT INTERNATIONAL CONFERENCES 2024





**Joint International Conferences**

**East-Asian Association for Science Education (EASE)  
and  
International Conference on Mathematics Education and  
Science Education (ICMS&E)**

**Theme:**

Strengthening Science and Mathematics Education as a Valuable  
Foundation for Sustainable Development Goals

**Editorial Team:**

Tuszie Widhiyanti, Ph.D.  
Prof. Dr. Lilik Hasanah, M.Si.  
Dr. Lilit Rusyati, M.Pd.  
Tri Suwandi, S.Pd., M.Sc.  
Isnawati, S.Pd.  
Vivi Mardian, S.Pd.  
Muhamad Taufiq, M.Pd.

**Faculty of Mathematics and Science Education  
Universitas Pendidikan Indonesia**

**Bandung, July 8-9, 2024**

# Opening Remarks



**Irma Rahma  
Suwama, Ph.D.**  
*Chairperson*

Dear honorable guests, presenters, participants, and colleagues...

I am sincerely thanking and welcome you to EASE-ICMScE Joint Conference 2024.

International Conference on Mathematics and Science Education (ICMScE) is annually conference that have been hosted by Faculty of Mathematics and Science Education, UPI since 2018. The conference is held to share research ideas and results and initiate collaboration among scholars.

East Asian Association for Science Education (EASE) was officially established on October 31, 2007, at the founding assembly held at Seoul National University. It initiated by five constituent regions (China Mainland, Hong Kong, Japan, Korea, and Taiwan). Fortunately, Indonesia became new region member since 2022. Now it is consisting of seven region China Mainland, Hong Kong, Japan, Korea, Taiwan, Indonesia, and Thailand. EASE have bi annually conference and student short program.

These is a big opportunities and honor for UPI to combine the two conferences.

I would like to report that the joint conference attended by 321 registrant includes 256 online/offline presenters, and 65 online/offline participants. I am greatly thanks to all EASE region contribution so that we have vary participants not only from all EASE regions, but also from United states, Philippines, Malaysia, German, and Africa.

This year, EASE-ICMScE raised the theme of "Strengthening Science and Mathematics Education as a Valuable Foundation for Sustainable Development Goals" I hope all of us can share and discuss the ideas and research results to enrich education for Sustainable Development Goals.

I am sincerely thanks to all UPI leaders, and committees for supports and hard work. Please enjoy the conference and lets' initiate further collaboration!

Best regards,

A handwritten signature in blue ink, appearing to be 'Irma', written over a blue line.

**Irma Rahma Suwama, Ph.D.**  
Chairperson

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*Executive Board Member of EASE, Universitas Negeri Semarang, Indonesia.*

**Prof. Dr. Indrawati, M.Pd.**  
*Executive Board Member of EASE, Universitas Jember, Indonesia.*

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**Dr. Tomotaka Kuroda**, Shizuoka University, STEAM Education Institute

### **ORGANIZING COMMITTEE**

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8. Annisa Fitriani
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10. Ghena Akmalia

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4. Sumiati, S.Pd.

**Program** :

1. Tuszie Widhiyanti, Ph.D.
2. Prof. Dr. Lilik Hasanah
3. Dr. Lilit Rusyati, M.Pd.
4. Tri Suwandi, S.Pd., M.Sc.
5. Isnawati, S.Pd.
6. Vivi Mardian, S.Pd.
7. Muhamad Taufiq, M.Pd.

**Article Publication** :

1. Dr. Eka Cahya Prima, M.T.
2. Rizki Zakwandi, M.Si.
3. Puti Siswandari, S.Pd., M.Si.
4. Defrizal Hamka, M.Pd.

**Public Relation and Documentation:**

1. Yusuf Adhitya, S.Pd., M.Pd.
2. Hardini Puspitaningrum, M.Si.
3. Rahma Zulva, M.Pd.
4. Deni Moh Budiman, M.Pd.

**Accommodation**

- :
1. Dr. Eyus Sudihartinih
  2. Miarti Khikmatun Nais, M.Pd.
  3. Fitri Rahmawati, M.Sc.
  4. Triannisa Rahmawati, S.Pd., M.Si.
  5. Arifin Septiyanto, S.Pd.
  6. Yudi Suhendar
  7. Niko Cepyansah, S.Pd.

## **Overview**

All of the presenters and non-presenters are going to attend the keynote speaker session. The conference will have seven speakers in the session. They are Prof. Dr. Toshide Hirano, from Japan; Prof. Dr. Chokchai Yuenyong, from Thailand; Prof. Dr. Wan Zhihong, from Hong Kong; Prof. Sri Rahayu, M.Ed, Ph.D, from Indonesia; Prof. Fang-Ying Yang, from Taiwan; Professor Hyoung-Yong Park, from South Korea; and Prof. Bao Hui Zhang, Ph.D, from China. Both presenters and non-presenters must fill in the attendance list provided by the committee directly (offline) and chatbox (online). The keynote speaker session will be led by a moderator. The link for the keynote speaker session is provided below.

*(Semua pemakalah dan non-pemakalah akan menghadiri sesi pembicara utama. Konferensi ini akan menghadirkan tujuh pembicara dalam sesi tersebut. Pemateri umata terdiri dari Prof. Dr. Toshide Hirano, dari Jepang; Prof. Dr. Chokchai Yuenyong, dari Thailand; Prof. Dr. Wan Zhihong, dari Hong Kong; Prof. Sri Rahayu, M.Ed., Ph.D, dari Indonesia; Prof. Fang-Ying Yang, dari Taiwan; Prof. Hyoung-Yong Park, dari Korea Selatan; dan Prof. Bao Hui Zhang, Ph.D, dari China. Baik pemakalah dan non pemakalah harus mengisi daftar hadir yang disediakan panitia secara langsung (offline) dan chatbox (online). Sesi pembicara utama akan dipandu oleh seorang moderator. Tautan untuk sesi pembicara utama tersedia di bawah ini).*

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### **Link for Opening Ceremony and Keynote Speaker Session, Day 1**

Time: Jul 8, 2024 08:00 AM Jakarta

Join Zoom Meeting

<https://bit.ly/icmsce-ks01>

Meeting ID: 932 4215 1175



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### **Link for Keynote Speaker Session, Day 2**

Time: Jul 9, 2024 08:00 AM Jakarta

Join Zoom Meeting

<https://bit.ly/icmsce-ks02>

Meeting ID: 917 5263 7963



After attending the keynote speaker session, both presenters and non-presenters should leave the auditorium to the designated rooms (offline) and to the new link (online) for the invited speaker session. Presentations and Q&A sessions in each room will be guided by a moderator. They should also fill in the attendance list which will be announced later. The link for the invited speaker sessions is provided below.

*(Setelah menghadiri sesi keynote speaker, baik pemakalah maupun non-pemakalah harus meninggalkan auditorium menuju ruangan yang telah ditentukan (offline) dan ke tautan baru (online) untuk sesi invited speaker. Presentasi dan sesi tanya-jawab di setiap ruangan akan*

dipandu oleh seorang moderator. Mereka juga harus mengisi daftar kehadiran yang akan diumumkan kemudian. Tautan untuk sesi invited speaker disediakan di bawah ini).

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**Prof. Dr. Diana Rochintaniawati, M.Ed. and Arif Widiyatmoko, S.Pd., M.Pd., Ph.D.**  
(Room S-301 / IS.OF.A1-A2)

Time: Jul 8, 2024 01:00 PM Jakarta

Join Zoom Meeting

<https://bit.ly/icmsce-is01>

Meeting ID: 991 6744 4574



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**Dr. Achmad Samsudin, M.Pd. and Prof. Dr. Sentot Kusairi, M.Si.**  
(Room S-303 / IS.OF.B1-B2)

Time: Jul 8, 2024 01:00 PM Jakarta

Join Zoom Meeting

<https://bit.ly/icmsce-is02>

Meeting ID: 912 7986 7771



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**Dr. Paed. Sjaeful Anwar and Dr. Sri Wahyuni, M.Pd.**  
(Room S-305 / IS.OF.C1-C2)

Time: Jul 8, 2024 01:00 PM Jakarta

Join Zoom Meeting

<https://bit.ly/icmsce-is03>

Meeting ID: 925 4552 4148



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**Dr. Siti Sriyati, M.Si. and Dr. Rita Retnowati, M.Si.**  
(Room S-301 / IS.OF.D1-D2)

Time: Jul 9, 2024 01:00 PM Jakarta

Join Zoom Meeting

<https://bit.ly/icmsce-is04>

Meeting ID: 973 7293 6854



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**Dr. Rani Megasari, M.T. and Dr. Prihastuti Harsani, M.Si.**  
(Room S-303 / IS.OF.F1-F2)

Time: Jul 9, 2024 01:00 PM Jakarta

Join Zoom Meeting

<https://bit.ly/icmsce-is05>

Meeting ID: 940 5345 7156





**Prof. Al Jupri, S.Pd., M.Sc., Ph.D.**

(Room S-305 / IS.OF.F1)

Time: Jul 9, 2024 01:00 PM Jakarta

Join Zoom Meeting

<https://bit.ly/icmsce-is06>

Meeting ID: 984 0534 3595



After attending the invited speaker session, both presenters and non-presenters are welcome to join the parallel session. For presenters and non-presenters who follow online to enter the parallel session, presenters are required to change their account name in zoom with the following format, **ROOM CODE\_NAME PRESENTER\_AFFILIATION**, for example **PS.ON.A1\_Vivi Mardiana\_UPI**. Meanwhile, non-presenters should change the account name in the zoom with the following format, **NAME OF NON-PRESENTER\_AFFILIATION**, for example: **Lilit Rusyati\_UPI**. This parallel session will be guided by each moderator in each room. They should also fill in the attendance list which will be announced later. Links for parallel sessions are provided below.

*(Usai menghadiri sesi invited speaker, baik pemakalah maupun non-pemakalah dipersilakan untuk mengikuti sesi paralel. Bagi pemakalah dan non-pemakalah yang mengikuti secara online masuk ke parallel session, pemakalah diharuskan mengganti nama akun di zoom dengan format sebagai berikut, **KODE RUANGAN\_NAMA PRESENTER\_AFILIASI**, misalnya **PS.ON.A1\_Vivi Mardiana\_UPI**. Sementara itu, non-pemakalah harus mengubah nama akun di zoom dengan format sebagai berikut, **NAMA NON PRESENTER\_AFILIASI**, misalnya: **Lilit Rusyati\_UPI**. Sesi paralel ini akan dipandu oleh masing-masing moderator di setiap ruangan. Mereka juga harus mengisi daftar kehadiran yang akan diumumkan kemudian. Tautan untuk sesi paralel disediakan di bawah ini).*

<b>Online Parallel Session (Day 1)</b>	<b>Zoom Meeting Link</b>
<b>PS.ON.A3-4</b> (02:30 – 03:30 PM Jakarta)	Join Zoom Meeting <a href="https://bit.ly/icmsce-ps-on-a3-4">https://bit.ly/icmsce-ps-on-a3-4</a> Meeting ID: 961 7334 2333
<b>PS.ON.A6-8</b> (03:45 – 05:30 PM Jakarta)	Join Zoom Meeting <a href="https://bit.ly/icmsce-ps-on-a6-8">https://bit.ly/icmsce-ps-on-a6-8</a> Meeting ID: 985 6799 6816
<b>PS.ON.B3-5</b> (02:30 – 03:30 PM Jakarta)	Join Zoom Meeting <a href="https://bit.ly/icmsce-ps-on-b3-5">https://bit.ly/icmsce-ps-on-b3-5</a> Meeting ID: 992 6037 6737
<b>PS.ON.B7-9</b> (03:45 – 05:15 PM Jakarta)	Join Zoom Meeting <a href="https://bit.ly/icmsce-ps-on-b7-9">https://bit.ly/icmsce-ps-on-b7-9</a> Meeting ID: 931 5682 1232
<b>PS.ON.C2-5</b> (02:30 – 03:30 PM Jakarta)	Join Zoom Meeting <a href="https://bit.ly/icmsce-ps-on-c2-5">https://bit.ly/icmsce-ps-on-c2-5</a> Meeting ID: 996 1168 4307
<b>PS.ON.C7-11</b> (03:45 – 05:15 PM Jakarta)	Join Zoom Meeting <a href="https://bit.ly/icmsce-ps-on-c7-11">https://bit.ly/icmsce-ps-on-c7-11</a> Meeting ID: 963 7556 8187

<b>Online Parallel Session (Day 2)</b>	<b>Zoom Meeting Link</b>
<b>PS.ON.D3-5</b> (02:30 – 03:45 PM Jakarta)	Join Zoom Meeting <a href="https://bit.ly/icmsce-ps-on-d3-5">https://bit.ly/icmsce-ps-on-d3-5</a> Meeting ID: 959 8229 8078
<b>PS.ON.E2-4</b> (02:30 – 03:45 PM Jakarta)	Join Zoom Meeting <a href="https://bit.ly/icmsce-ps-on-e2-4">https://bit.ly/icmsce-ps-on-e2-4</a> Meeting ID: 998 6451 7883
<b>PS.ON.F3-5</b> (01:45 – 03:45 PM Jakarta)	Join Zoom Meeting <a href="https://bit.ly/icmsce-ps-on-f3-5">https://bit.ly/icmsce-ps-on-f3-5</a> Meeting ID: 918 9351 7293

After all parallel sessions are completed, each moderator will close the conference. Moderators will inform all participants if there is any information that presenters and non-presenters need to know.

*(Setelah seluruh sesi paralel selesai, setiap moderator akan menutup seluruh rangkaian konferensi. Moderator akan memberitahu seluruh peserta jika ada informasi yang perlu diketahui oleh pemakalah dan non-pemakalah).*

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**Joint Conference EASE - ICMScE 2024****Day 1, 8 July 2024 (Monday)**

Time (WIB)	Activities
07.30 - 08.00	<b>Registration</b> Offline: Registration at Auditorium FPMIPA UPI Online: Registration Via Zoom and Google Form by Joint Conference EASE – ICMScE 2024 online seminar host team.  Host: Tri Suwandi, S.Pd., M.Sc.; Operator: Niko Cepyansah, S.Pd. Link of attendance: <a href="https://bit.ly/attendance-icmsce-2024">https://bit.ly/attendance-icmsce-2024</a>
08.00 - 08.05	<b>Opening Ceremony</b> MC: Ms. Faza Alika Sari Maulida & Mr. Mohammad Fariz Zoom Meeting Link: <a href="https://bit.ly/icmsce-ks01">https://bit.ly/icmsce-ks01</a>
08.05 - 08.10	Listening National Anthem Indonesia Raya
08.10 - 08.15	Conference Report by Head of Executive Committee: <b>Irma Rahma Suwama, Ph.D.</b>
08.15 - 08.20	Welcoming Remarks by Dean of FPMIPA UPI: <b>Prof. Dr. Tatang Herman, M.Ed.</b>
08.20 - 08.25	Welcoming Remarks by the President of EASE: <b>Prof. Dr. Anna Permanasari, M.Si.</b>
08.25 - 08.35	Welcoming Remarks and Official Opening of Joint Conference EASE-ICMScE 2024 by <b>Rector of UPI: Prof. Dr. H.M. Solehudin, M.Pd., M.A.</b>
08.35 - 08.45	Art Performance
08.45 - 08.50	Prayer session by Tri Suwandi, S.Pd., M.Sc.
08.50 - 08.55	Awarding tokens and photo session.
08.55 - 11.25	<b>Keynote Speaker Session</b> Zoom Meeting Link: <a href="https://bit.ly/icmsce-ks01">https://bit.ly/icmsce-ks01</a>
08.55 - 09.40	Keynote 1: <b>Prof. Hyoung- Young Park, Ph.D.</b> <i>“Transforming Science Education in the Age of AI”</i>  Moderator: Dr. Eka Cahya Prima, M.T.
09.40 - 09.55	Coffee Break
09.55 - 10.40	Keynote 2: <b>Prof. Dr. Toshide Hirano, Ph.D.</b> <i>“The Role of Curriculum in Constructing the Knowledge for Sustainable Society”</i>  Moderator: Dr. Galuh Yuliani, M.Si.
10.40 - 11.25	Keynote 3: <b>Prof. Dr. Chokchai Yuenyong</b> <i>“KKU PLC STEM Academy for Enhancing STEM Teacher Competencies”</i>  Moderator: Amaira Utami, S.Pd. M.Pd.
11.25 - 12.00	Poster Session
12.00 - 13.00	Lunch Break
	<b>Executive Member Meeting</b> Zoom Meeting Link: <a href="https://bit.ly/EASE-EM-Meeting">https://bit.ly/EASE-EM-Meeting</a> Meeting ID: 931 2785 4667, Passcode: 1111
13.00 - 13.45	<b>Invited Speaker Session I</b>

Time (WIB)	Activities													
	<p>IS.OF.A1 <b>Prof. Dr. Diana Rochintaniawati, M.Ed.</b></p> <p><i>“Web Support Blended Inquiry: Empowering Students Inquiry and Collaboration”</i></p> <p>Room S-301 Zoom Link: <a href="https://bit.ly/icmsce-is01">https://bit.ly/icmsce-is01</a> Moderator: Liandha Arieska Putri, M.Pd.</p>				<p>IS.OF.B1 <b>Dr. Achmad Samsudin, M.Pd.</b></p> <p><i>“Sustainability of Physics Augmented Reality (SoPAR): Development and Implementation to Strengthen Students' Conception and Reach Quality Education”</i></p> <p>Room S-303 Zoom Link: <a href="https://bit.ly/icmsce-is02">https://bit.ly/icmsce-is02</a> Moderator: Dr. Nanang Winarno, M.Pd.</p>				<p>IS.OF.C1 <b>Dr. Paed. Sjaeful Anwar</b></p> <p><i>“Preserving National Culture Through Ethnoscience-Based Integrated Science Teaching Materials”</i></p> <p>Room S-305 Zoom Link: <a href="https://bit.ly/icmsce-is03">https://bit.ly/icmsce-is03</a> Moderator: Eliyawati, M.Pd.</p>					
	<b>Invited Speaker Session II</b>													
13.45 - 14.30	<p>IS.ON.A2 <b>Arif Widiyatmoko, S.Pd, M.Pd., Ph.D.</b></p> <p><i>“Development of Virtual Reality Game Based Learning to Improve Students' STEM Literacy in Energy Concepts”</i></p> <p>Room S-301 Zoom Link: <a href="https://bit.ly/icmsce-is01">https://bit.ly/icmsce-is01</a> Moderator: Liandha Arieska Putri, M.Pd.</p>				<p>IS.ON.B2 <b>Prof. Dr. Sentot Kusairi, M.Si.</b></p> <p>“.....”</p> <p>Room S-303 Zoom Link: <a href="https://bit.ly/icmsce-is02">https://bit.ly/icmsce-is02</a> Moderator: Dr. Nanang Winarno, M.Pd.</p>				<p>IS.ON.C2 <b>Dr. Sri Wahyuni, M.Pd.</b></p> <p><i>“Development of Contextual-Based Teaching Materials to Develop Student's Ecoliteracy in Junior High School Science Learning”</i></p> <p>Room S-305 Zoom Link: <a href="https://bit.ly/icmsce-is03">https://bit.ly/icmsce-is03</a> Moderator: Eliyawati, M.Pd.</p>					
	<b>Parallel Session I</b>													
14.30 - 15.30	Room S.301	Room S.302	Online		Room S.303	Room S.304	Online			Room S.305	Online			
	PS.OF.A1	PS.OF.A2	PS.ON.A3	PS.ON.A4	PS.OF.B1	PS.OF.B2	PS.ON.B3	PS.ON.B4	PS.ON.B5	PS.OF.C1	PS.ON.C2	PS.ON.C3	PS.ON.C4	PS.ON.C5
15.30 – 15.45	Coffee Break													
	<b>Parallel Session II</b>													
15.45 – 17.30	Room S.301	Online			Room S.303	Online			Room S.305	Online				
	PS.OF.A5	PS.ON.A6	PS.ON.A7	PS.ON.A8	PS.OF.B6	PS.ON.B7	PS.ON.B8	PS.ON.B9	PS.OF.C6	PS.ON.C7	PS.ON.C8	PS.ON.C9	PS.ON.C10	PS.ON.C11

Time (WIB)	Activities		
07.30 - 08.00	Registration		
08.00 – 08.05	Opening by MC Zoom Meeting Link: <a href="https://bit.ly/icmsce-ks02">https://bit.ly/icmsce-ks02</a>		
08.05 - 08.50	Keynote 4: <b>Prof. Fang-Ying Yang, Ph.D.</b> “.....”  Moderator: Dr. Lilit Rusyati, M.Pd.		
08.55 - 09.40	Keynote 5: <b>Prof. Dr. Wan Zhihong</b> “Effects of Reverse Engineering as a STEM Pedagogy: A Meta-analysis”  Moderator: Dr. Rini Solihat, M.Si.		
09.40 - 09.50	Coffee Break		
09.50 - 10.40	Keynote 6: <b>Prof. Sri Rahayu, M.Ed., Ph.D.</b> “Cultivating Competency of Education for Sustainable Development in Chemistry Education”  Moderator: Dr. Rika Rafikah Agustin, M.Pd.		
10.40 - 11.30	Keynote 7: <b>Prof. Bao Hui Zhang, Ph.D.</b> “Developing and Implementing a MOOC “Foundations of Interdisciplinary and Integration (STEM) Education”: Teacher Education for Sustainable Science Education”  Moderator: Prof. Dr. Lilik Hasanah, M.Si.		
11.30 - 12.00	<b>All EASE Member Meeting</b> Zoom Meeting Link: <a href="https://bit.ly/All-EASE-EM-Meeting">https://bit.ly/All-EASE-EM-Meeting</a> Meeting ID: 970 8605 1758, Passcode: 1111		
12.00 - 13.00	Lunch Break		
13.00 - 13.45	<b>Invited Speaker Session I</b>		
	IS.OF.D1 <b>Dr. Siti Sriyati, M.Si.</b>  “The Concept of Sustainability in Relation to Ethnoscience and Its Implications in Biology Learning”  Room S-301 Zoom Link: <a href="https://bit.ly/icmsce-is04">https://bit.ly/icmsce-is04</a> Moderator: Puti Siswandari, S.Pd., M.Si.	IS.OF.E1 <b>Dr. Rani Megasari, M.T.</b>  “The Power of Data Management in Data Gathering”  Room S-303 Zoom Link: <a href="https://bit.ly/icmsce-is05">https://bit.ly/icmsce-is05</a> Moderator: Erna Piantari, M.T.	IS.OF.F1 <b>Prof. Al Jupri, S.Pd., M.Sc., Ph.D.</b>  “Exploring Pre-service Mathematics Teachers Thinking for Solving Linear Programming Word Problems”  Room S-305 Zoom Link: <a href="https://bit.ly/icmsce-is06">https://bit.ly/icmsce-is06</a> Moderator: Husty Serviana H., S.Si., M.Si.

Time (WIB)	Activities													
13.45 - 14.30	Invited Speaker Session II					Parallel Session I								
						Room S.305	Room S.306	Online						
	<p>IS.ON.D2 <b>Dr. Rita Retnowati, M.Si.</b></p> <p><i>“Development of Biology Learning Media: E-Magazine Results of Field Research on Water Pollution in the Cigayam River to Increase Students' Awareness of River Conservation”</i></p> <p>Room S-301 Zoom Link: <a href="https://bit.ly/icmsce-is04">https://bit.ly/icmsce-is04</a> Moderator: Puti Siswandari, S.Pd., M.Si.</p>					<p>IS.ON.E2 <b>Dr. Prihastuti Harsani, M.Si.</b></p> <p>“ .....</p> <p>Room S-303 Zoom Link: <a href="https://bit.ly/icmsce-is05">https://bit.ly/icmsce-is05</a> Moderator: Erna Piantari, M.T.</p>					PS.OF.F1	PS.OF.F2	PS.ON.F3	PS.ON.F4
14.30 - 15.45	Parallel Session I													
	Room S.301	Room S.302	Online			Room S.303	Online							
	PS.OF.D1	PS.OF.D2	PS.ON.D3	PS.ON.D4	PS.ON.D5	PS.OF.E1	PS.ON.E2	PS.ON.E3	PS.ON.E4					
15.45 – 16.00	Coffee Break													
16.00 – 17.30	<p>Closing Ceremony</p> <ul style="list-style-type: none"> <li>• Announcement</li> <li>• Closing remarks by chairperson</li> </ul> <p>Zoom Meeting Link: <a href="http://bit.ly/icmsce-closing">http://bit.ly/icmsce-closing</a></p>													



*Joint Conference EASE - ICMScE 2024*

***Day 1 (July 8, 2024)***

Oral Session 1	Day 1 (July 8, 2024)	14:30 - 15:30
Room	S - 301	PS.OF.A1
Category	Science Education	
Chairperson	Diniya	

### Presentation Program

1	<p>ABS-ICMSCE-24125  Diniya Diniya   Universitas Pendidikan Indonesia, Indonesia    Dadi Rusdiana, Asep Kadarohman, Ida Kaniawati, Nuryani Rustaman,  Muslim  An Investigation into Fluid Mechanics Course Profile to Improve  Science Pre-Service Teacher's Logical Thinking Skill</p>
2	<p>ABS-ICMSCE-24032  Hiroaki Suzuki   Yamagata University, Japan    Mina Goto  Integration of teacher training and in-service teacher education for  elementary school science teachers</p>
3	<p>ABS-ICMSCE-24086  Soichiro Kudo   Hiroshima University, Japan    Mikiharu Ishitobi, Kodai Miura, Shotaro Naganuma, Daiki Nakamura,  Hiroki Otani, Naoya Sakuma, Hideyuki Tanaka  Exploring the Nexus Between Students' Interests and Science  Textbook Contents: Insights from Japanese Middle School Education</p>
4	<p>ABS-ICMSCE-24094  Made Dedi Agustinus   Universitas Sebelas Maret, Indonesia    Ravik Karsidi, Sunardi, Murni Ramli  Meta-Analysis: General Problem-Solving Model and Student Skills in  Science and Mathematics Education</p>



Oral Session 1	Day 1 (July 8, 2024)	14:30 - 15:30
Room	S - 302	PS.OF.A2
Category	Science Education	
Chairperson	Yoichiro Abe	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24036 Yoichiro Abe   Hyogo University, Japan   Tomohiro Arai, Daiki Mukai, Toyosei Hirata The process of planning an experiment by children	
2	ABS-ICMSCE-24010 Lowell Gabunilas   University of San Carlos, Philippines   Jerald S. Galgao, Cyra Nicole A. Imbong, Rejoice C. Apdian, Shandy P. Balagulan Development of a Board Game for Teaching Concepts in Carbon Footprint	
3	ABS-ICMSCE-24005 Sunaryo Romli   Universitas Pendidikan Indonesia, Indonesia   Andi Suhandi, Muslim, Ida Kaniawati Trends and Research Opportunities of Development Inquiry-Based Learning Models in Science Education: A Systematic Literature Network Analysis	
4	ABS-ICMSCE-24100 Supranee Charoenwai   Kasetsart University, Thailand   Kulthida Nugultham, Nantarat Kruea-In A Survey of Innovator Skills of Thai Grade 12 Students by Supranee Charoenwai, Kulthida Nugultham and Nantarat Kruea-In	

Online Session 1	Day 1 (July 8, 2024) 14:30 - 15:30	
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-a3-4">https://bit.ly/icmsce-ps-on-a3-4</a>	PS.ON.A3
Category	Science Education	
Chairperson	Atiqah Ulya Hayandi	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24164 Atiqah Ulya Hayandi   Universitas Pendidikan Indonesia, Indonesia   - Analysis of Ethnoscience Research Opportunities in Science Education: Systematic Literature Review	
2	ABS-ICMSCE-24163 Olyivia Retdwina Rusma   Universitas Pendidikan Indonesia, Indonesia   - A Systematic Literature Review: The Use of Digital Media Assessment in science learning	
3	ABS-ICMSCE-24042 Yasunari Hayashi   Graduate School of Science, Tokyo University of Science, Japan   Fumiko Okiharu The Effect of Promoting Empathic Behavior on Cooperation in Reciprocal Teaching of Elementary School Science	
4	ABS-ICMSCE-24227 Ana Yuniasti Retno Wulandari   University of Trunojoyo Madura, Indonesia   Dwi Bagus Rendy Astid Putera, Maria Chandra Sutarja Analysis of Students' Scientific Literacy Based on Gender and Students' Interests	

Online Session 1	Day 1 (July 8, 2024) 14:30 - 15:30	
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-a3-4">https://bit.ly/icmsce-ps-on-a3-4</a>	PS.ON.A4
Category	ESD and Physics Education	
Chairperson	Diana Ayu Rostikawati	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24184 Diana Ayu Rostikawati   Universitas Pendidikan Indonesia, Indonesia   - Knowledges and Perceptions on Education for Sustainable Development of Primary Pre-Service Teachers	
2	ABS-ICMSCE-24260 Widia   Universitas Pendidikan Indonesia, Indonesia   Ida Kaniawati, Lilik Hasanah, Eka Cahya Prima Potential of Wind Power Energy Projects in Mountainous Regions of Indonesia: A Literature Review	
3	ABS-ICMSCE-24212 Dian Pasaribu   Mulawarman University, Indonesia   Nurul Fitriyah Sulaeman, Kenan Jairus C. Quitco Bridging Perspectives: A Comparative Analysis of Sustainable Development Goals (SDGs) Knowledge and Practice Among Junior High School Students in Indonesia and the Philippines	
4	ABS-ICMSCE-24243 Saiyidah Mahtari   Universitas Pendidikan Indonesia, Indonesia   Syihabuddin, Agus Setiawan, Mustika Wati Assessing and enhancing creativity in a laboratory course with collaborative problem-solving laboratory	

Oral Session 1	Day 1 (July 8, 2024)	14:30 - 15:30
Room	S - 303	PS.OF.B1
Category	Physics Education	
Chairperson	Fanny Rahmatina Rahim	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24138 Fanny Rahmatina Rahim   Universitas Pendidikan Indonesia, Indonesia   Exploring the Implementation of Artificial Intelligence in the Perspective of Teachers and Students	
2	ABS-ICMSCE-24141 Sohibun Sohibun  Universitas Pendidikan Indonesia, Indonesia  Kurniawan, A; Samsudin, A; Suhandi, A Problem Solving based learning for Complex Problem Solving learning models in Science Education: a case study in	
3	ABS-ICMSCE-24112 Meiry Akmara Dhina   Universitas Pendidikan Indonesia, Indonesia   Ida Kaniawati, Ade Gafar Abdullah, Lilik Hasanah Integrating Physics and Sustainable Technology in Pharmaceutical Education: A Socio-Technical Approach	
4	ABS-ICMSCE-24129 Faizatul Mabruroh   UIN Raden Fatah Palembang, Indonesia   Andi Suhandi Implementation of test instruments to measure students' critical thinking skills on sound wave	

Oral Session 1	Day 1 (July 8, 2024)	14:30 – 15:30
Room	S - 304	PS.OF.B2
Category	ESD, STEM	
Chairperson	Faza Alika Sari Maudina	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24209 Faza Alika Sari Maudina   Universitas Pendidikan Indonesia, Indonesia   - The Analysis of ESD-Based Science Learning on Human Circulatory System Diseases Topic for Junior High School Students	
2	ABS-ICMSCE-24014 Nurul Inayah Khairaty   Universitas Negeri Yogyakarta, Indonesia   - Advancing Students' Sustainability Awareness through Proyek Penguatan Profil Pelajar Pancasila Rahmatan Lil 'Alamiin (P5RA): Insights from the Save The Earth Campaign	
3	ABS-ICMSCE-24160 Anna Permanasari   Universitas Pakuan, Indonesia   - PBL-STEM-ESD Learning at Glance: How Secondary Students Learn Science for 21st Century Skills	
4	ABS-ICMSCE-24041 Khalifatulloh Fiel'ardh   Okayama University, Japan   Hiroki Fujii, Kazunori Iwata, Yasuhiko Ogura, Mako Koeda How Hot is it in 2100? Middle School Science Lesson on Future Climate	

Online Session 1	Day 1 (July 8, 2024) 14:30 - 15:30	
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-b3-5">https://bit.ly/icmsce-ps-on-b3-5</a>	PS.ON.B3
Category	Physics Education	
Chairperson	Charlos Falentino	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24180 Charlos Falentino   Universitas Mulawarman, Indonesia   Evanita Mutang, Abdul Hakim, Nurul Fitriyah Sulaeman, Atin Nuryadin Curriculum in the Eyes of Future Educators: A Metaphor Analysis from First Year Pre-service Science Teachers ABS-ICMSCE-24188	
2	ABS-ICMSCE-24231 Dandan Luhur Saraswati   Universitas Pendidikan Indonesia, Indonesia   Ida Hamidah, Andi Suhandi, Achmad Samsudin Review of Literature on Sound Wave Concepts: Research Variables and Teaching Strategies	
3	ABS-ICMSCE-24189 Widia Linta Nurjanah   Universitas Pendidikan Indonesia, Indonesia   Ika Mustika Sari, Duden Saepuzaman The Effect of Model-Based Learning assisted by Augmented Reality on Cognitive Process Skills on The Topic of Heat Transfer	
4	Maryam Musfiroh   Universitas Pendidikan Indonesia, Indonesia   Taufik Ramlan Ramalis, Ridwan Efendi Learning Model Cycle 7E with Writing in The Discipline Strategy to Improve Cognitive Ability and Scientific Explanation Skills on Static Fluid Concepts	

Online Session 1	Day 1 (July 8, 2024) 14:30 - 15:30	
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-b3-5">https://bit.ly/icmsce-ps-on-b3-5</a>	PS.ON.B4
Category	Physics Education and chemistry education	
Chairperson	Vania Valda	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24059 Vania Valda   Universitas Pendidikan Indonesia, Indonesia   Ahmad Zulkarnain Zain Development of Learning Media for Physics Mission Card Games (MISIKA) based on Creative Thinking Skills Indicators in Static Fluid Materials	
2	ABS-ICMSCE-24174 Ziyad Fadhlán Nabil   Universitas Pendidikan Indonesia, Indonesia   - Analysis of the need for using Geospatial Technology in developing student worksheets	
3	ABS-ICMSCE-24049 Rusnan bin Tarya   Universitas Negeri Semarang, Indonesia   Isti Hidayah, Walid Analysis of Learning Obstacles for Vocational School Students in Definite Integrals of Algebraic Functions	
4	ABS-ICMSCE-24158 Ester Purba   Universitas Pendidikan Indonesia, Indonesia   Hernani, Ali Kusrijadi Development of E-Modules Oriented to Scientific Literacy for High School Students	

Online Session 1	Day 1 (July 8, 2024)	14:30 - 15:30
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-b3-5">https://bit.ly/icmsce-ps-on-b3-5</a>	PS.ON.B5
Category	Physics Education	
Chairperson	Raldy Aditya	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24221 Raldy Aditya   Universitas Pendidikan Indonesia, Indonesia   Endi Suhendi, Lina Aviyanti Modification of the Self-Assessment to Measure Habits of Mind of High School Students in Physics Learning in Indonesia	
2	ABS-ICMSCE-24011 Siti Nurjanah   Yogyakarta State University, Indonesia   Nurul Aulia Martaputri, Shaufi Ramadhani, Izzul Kiram Suardi, Endang Wati Mapping the Landscape of Problem-Solving in Physics Education Research: A Bibliometric Study	
3	ABS-ICMSCE-24187 Albert Adjei   Universitas Pendidikan Indonesia, Indonesia   - Enhancing E-Waste Management in Indonesia: A Study of Knowledge Levels Among TVET Electrical Engineering Students and Current Practices	
4	ABS-ICMSCE-24148 Muspratiwi Pertiwi MR   Universitas Negeri Makassar, Indonesia   Patta Bundu, M. Yahya IGE: A Learning model that Integrated Guided Inquiry and Educational Games to Enhance Science Process Skills in Elementary Schools	



Oral Session 1	Day 1 (July 8, 2024)	14:30 - 15:30
Room	S - 305	PS.OF.C1
Category	Chemistry Education And Science Education	
Chairperson	Lukman Hadi	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24150 Lukman Hadi   Universitas Pendidikan Indonesia, Indonesia   Ahmad Mudzakir Rare Earth Elements Recovery from Red Mud: A Bibliometric Analysis	
2	ABS-ICMSCE-24213 Ruqayyah   Universitas Pendidikan Indonesia, Indonesia   Liliyasi, Hendrawan, Budiman Anwar The Evaluation of Physical Chemistry Laboratory Course Implementation	
3	ABS-ICMSCE-24047 Asami Kajita   Graduate School of Education, Okayama University, Japan   How is CO <sub>2</sub> Changing the Seawater? Middle School Lessons on Ocean Acidification	
4	ABS-ICMSCE-24257 Nur Ahmad   Universitas Jember, Indonesia Development of Interactive Articulate Storyline-Based Science Learning Videos to Improve Critical Thinking Skills of Junior High School	

Online Session 1	Day 1 (July 8, 2024)	14:30 - 15:30
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-c2-5">https://bit.ly/icmsce-ps-on-c2-5</a>	PS.ON.C2
Category	Chemistry education and Physics Education	
Chairperson	Riskawati Riskawati	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24120 Riskawati Riskawati   Universitas Pendidikan Indonesia, Indonesia   - Computational Thinking Profile in Solving Problem of Babras Challenge Task on Coding Training Student	
2	ABS-ICMSCE-24055 Gabriela Chelvina Santiuly Girsang   Universitas Pendidikan Indonesia, Indonesia   Budiman Anwar, Fitri Khoerunnisa The Influence of HA/PVP Composition on the Mechanical and Barrier Properties of Polyblend HA/PVP Films as Biodegradable and Biocompatible Plastics	
3	ABS-ICMSCE-24246 Arfiani Nur   Hasanuddin University, Indonesia   - Comprehensive Review of 2,4,6-Triaryl Pyridine: Modern Synthetic Approaches and Potential Applications in Materials and Pharmaceutical Chemistry	
4	ABS-ICMSCE-24056 Jessica Veronica   Universitas Pendidikan Indonesia, Indonesia   Galuh Yuliani, H. Budiman Anwar Adsorptive properties of fly ash zeolites modified by zinc oxide and magnetite for clindamycin removal	

Online Session 1	Day 1 (July 8, 2024) 14:30 - 15:30	
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-c2-5">https://bit.ly/icmsce-ps-on-c2-5</a>	PS.ON.C3
Category	STEM	
Chairperson	Beatrik Nova	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24109 Beatrik Nova   Universitas Pendidikan Indonesia, Indonesia   Irma Rahma Suwarma, Nanang Winarno STEM – Project Based Learning Towards Technology Engineering Literacy (TEL): An Action Research	
2	ABS-ICMSCE-24122 Annisa Nurramadhani   Universitas Pendidikan Indonesia, Indonesia   - How is STEM Low Carbon Education Cultivate Students' Sustainable Consciousness?	
3	ABS-ICMSCE-24167 Lilis Siti Hindun Khatimatussa'diyah Zein   Pakuan University, Indonesia   Anna Permanasari, Prasetyorini Djarot STREAM in Science Education: Challenge to Enhance Creative Thinking Skills and Spiritual Quotient for Society 5.0	
4	ABS-ICMSCE-24082 Hiroki Hayashi   Tokyo University of Science, Japan   Fumiko Okiharu, Yamato Hasegawa Proposal for STEAM workshop based on sound and electromagnetism	

Online Session 1	Day 1 (July 8, 2024)	14.30 - 15:30
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-c2-5">https://bit.ly/icmsce-ps-on-c2-5</a>	PS.ON.C4
Category	Chemistry Education	
Chairperson	Abdul Wahid	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24026 Abdul Wahid   Universitas Pendidikan Indonesia, Indonesia   - Development of PjBL Model Thermochemistry Practicum Worksheet with The Context of Making Tape from Cassava (Manihot Esculenta) To Develop Students' Science Processing Skills (KPS)	
2	ABS-ICMSCE-24147 Adinda Ajie   Universitas Pendidikan Indonesia, Indonesia   Wiji, Sri Mulyani Utilization of LMS in Secondary School Environment to Support Multirepresentation Chemistry Learning: Preliminary Research	
3	ABS-ICMSCE-24166 Aldini Aulia   Universitas Pendidikan Indonesia, Indonesia   - Integrating Education for Sustainable Development through Chemistry E-module of Renewable Energy	
4	ABS-ICMSCE-24250 Anderson Arnold Aloanis   Universitas Padjadjaran, Indonesia   - Total synthesis of cycloenegalina A	

Online Session 1	Day 1 (July 8, 2024)	14:30 - 15:30
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-c2-5">https://bit.ly/icmsce-ps-on-c2-5</a>	PS.ON.C5
Category	ESD	
Chairperson	Haryanto	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24039 Haryanto   Universitas Pendidikan Indonesia, Indonesia   Sjaeful Anwar, Rini Solihat, Dewi Sulistyowati, Waliyyatu Azzahra, Zuana Habibaturrohman Analyzing Publication Trends in Education for Sustainable Development Integration: A Bibliometric Study (2019-2023)	
2	ABS-ICMSCE-24204 Alya Puspita Zahra   Mulawarman University, Indonesia   Greny Mispi Anisa Sari, Nurul Fitriyah Sulaeman, Shelly Efwinda, Atin Nuryadin Energy & Environmental Sustainability in The New Capital City of Indonesia: Voices of Junior High School Student	
3	ABS-ICMSCE-24200 Taj Rosyidah   Universitas Pendidikan Indonesia, Indonesia   - The Effect of Experience Learning Models Containing ESD on Students' Critical Thinking Skills and Integrated Problem-solving Competencies	
4	ABS-ICMSCE-24022 Anisatuz Zahro'   University of Southern Mindanao PALMA Cluster Campuses, Philipines   Sally B. Gutierrez Bridging Knowledge Divides, Breaking the Hegemony: Culturally Relevant Science Teaching for Sustainable Knowledge Systems	

Oral Session 2	Day 1 (July 8, 2024)	15:45-17:30
Room	S - 301	PS.OF.A5
Category	Science Education, ESD	
Chairperson	Rahmi Zulva	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24095 Rahmi Zulva   Universitas Pendidikan Indonesia, Indonesia   Agus Setiawan, Andi Suhandi, Achmad Samsudin Analysis of Articles Indexed in Scopus Regarding the Use of Computer Models in Science Learning: Systematic Literature Network Analysis	
2	ABS-ICMSCE-24169 Farkhah Nofianti   SMP Negeri 1 Banjarnegara Jawa Tengah, Indonesia   Tuswadi, Retno Puspitorini Science Classes in Indonesia and in Japan: A Case of Junior High School in Banjarnegara and in Hiroshima	
3	ABS-ICMSCE-24193 Yuya Nakanishi   Niigata University, Japan   - What and How Technology and Industrial Content Should be Taught in Science: From a Historical Perspective on The Formation of Science in The Meiji Period (1868-1912)	
4	ABS-ICMSCE-24037 Kousuke Shimada   Hiroshima University Graduate School of Humanities and Social Sciences, Japan   Kosuke Shimada, Yusei Nomura, Tetsuo Isozaki Characteristics of the tasks in Japan's science textbooks: Focusing on the chapter "Science, Technology and Humans"	
5	ABS-ICMSCE-24216 Rephiany Nur Afifah   Universitas Islam Negeri Sunan Gunung Djati Bandung, Indonesia   Khalifatulloh Fiel'ardh, R. Ading Pramadi, Iwan Ridwan Yusup from Taxonomy to Sustainability: Utilizing Articulate Storyline Platform in Middle School Science	
6	ABS-ICMSCE-24232 Eliyawati   Universitas Pendidikan Indonesia, Indonesia   Ari Widodo, Ida Kaniawati, Hiroki Fujii A Decade of Teacher Training Trends on Education for Sustainable Development (ESD): A Systematic Literature Network Analysis	
7	ABS-ICMSCE-24252 Leo Muhammad Taufik   Universitas Pendidikan Indonesia, Indonesia   Ari Widodo; Taufik Rahman; Hertien Koosbandiah S. Systems thinking in science and environmental education: A systematic review of the literature	

Online Session 2	Day 1 (July 8, 2024)	15:45-16:45
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-a6-8">https://bit.ly/icmsce-ps-on-a6-8</a>	PS.ON.A6
Category	Science Education	
Chairperson	Fairuz Maharani	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24233 Fairuz Maharani   Universitas Jember, Indonesia   Indrawati, Erlia Narulita, Iwan Wicaksono Analysis of Science Teachers' TPACK Skills and Understanding of Science Literacy in the Northern Region of Lumajang City	
2	ABS-ICMSCE-24076 Yeni Widiyawati   Universitas Ivet, Indonesia   Dwi Septiana Sari, Ina Sholihah Widiati A Systematic Review of Research Evidence of Differentiated Instruction in Indonesia's Science Education	
3	ABS-ICMSCE-24064 Dwi Septiana Sari   Universitas Ivet, Indonesia   Yeni Widiyawati, Ina Sholihah Widiati Traditional Games-based Differentiated Science Learning Book	
4	ABS-ICMSCE-24102 Takehiro Hayashi   Hiroshima University, Japan   Tuswadi, Fujikawa Yoshinori, Nakanishi Yuya, Isozaki Tetsuo Development of the Rubric for Evaluating Disaster Prevention Learning in Science Classes: Case studies in Indonesia and Japan	

Online Session 2	Day 1 (July 8, 2024)	15:45-16:45
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-a6-8">https://bit.ly/icmsce-ps-on-a6-8</a>	PS.ON.A7
Category	Science Education	
Chairperson	Kasmanto	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24202 Sirry Alvina   Universitas Malikussaleh, Indonesia   Mellyzar, Syarifah Rita Zahara Does Home-Based Experiment (HBE) Enhance Scientific Skills among Middle School Students?	
2	ABS-ICMSCE-24194 Dian Purnama Ilahi   Universitas Negeri Padang, Indonesia   Festiyed, Yulkifli Analyzing the Impact of Augmented Reality on Student Learning Outcome in K-12 Science Education: A Meta-Analysis Study	
3	ABS-ICMSCE-24168 Ka Lok Cheng   The University of Hong Kong, Hongkong   - Epistemic Uncertainty in Science Education: A Position Paper	
4	ABS-ICMSCE-24119 Kasmanto   Universitas Pendidikan Indonesia, Indonesia   Sjaeful Anwar Exploring the Efficacy of Inquiry-Based Learning Models: A Narrative Review	



Online Session 2	Day 1 (July 8, 2024)	15:45 - 17:15
Zoom Link	<a href="https://bit.ly/icmsce-ps.on.c345">https://bit.ly/icmsce-ps.on.c345</a>	PS.ON.A8
Category	ESD	
Chairperson	Zuliande Zidan	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24146 Zuliande Zidan   Universitas Pendidikan Indonesia, Indonesia   - Using the Botanical Eco-gamification Program to Support Sustainable Practice in Sustainable Development Topics	
2	ABS-ICMSCE-24114 Naufal Rabah Wahidin   Universitas Pendidikan Indonesia, Indonesia   Riandi, Lilit Rusyati Middle School Students' Perceptions about Climate Change, Behaviours and Habits in the Sustainable Development Domain	
3	ABS-ICMSCE-24134 Rika Siti Syaadah   Universitas Negeri Jakarta, Indonesia   - Introducing Small-Scale Chemistry Laboratory on The Topic Simple Water Treatment Process to Support Sustainable Development Goals (SDGs)	
4	ABS-ICMSCE-24084 Anisatuz Zahro'   Universitas Sebelas Maret, Indonesia   Muzzazinah, Murni Ramli Mapping Research Themes and Future Direction in Research Skills of Undergraduate Research: A Bibliometric Approach	
5	ABS-ICMSCE-24068 Shelly Efwindi   Mulawarman University, Indonesia   Zeni Haryanto, Muliati Syam Towards Goal 13 of Sustainable Development: Indonesian Students' Perceptions of Global Warming	
6	ABS-ICMSCE-24022 Karizza Jane Pejaner   University of Southern Mindanao PALMA Cluster Campuses, Philippines   Sally B. Gutierrez Bridging Knowledge Divides, Breaking the Hegemony: Culturally Relevant Science Teaching for Sustainable Knowledge Systems	

Oral Session 2	Day 1 (July 8, 2024)	15:45 - 17:15
Room	S - 303	PS.OF.B6
Category	Physics Education	
Chairperson	Muhamad Taufiq	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24139 Muhamad Taufiq   Universitas Negeri Semarang, Indonesia   Ida Kaniawati, Liliyasi, Achmad Samsudin Development of Baseball Hitter Simulation Using Scratch Program to Enhance Generic Science Skills on Impulse and Momentum Concept	
2	ABS-ICMSCE-24245 Rizal Adimayuda   Universitas Pendidikan Indonesia, Indonesia   Achmad Samsudin, Andi Suhandi, Endi Suhendi Analyzing college grade Javanese Students' Conceptions: How Rasch analyzed students' understanding of Physics Education Concepts?	
3	ABS-ICMSCE-24069 Endang Susilawati   Universitas Pendidikan Indonesia, Indonesia   - Logical Reasoning Profile of Student Teachers in Indonesia	
5	ABS-ICMSCE-24153 Deni Moh Budiman   Universitas Pendidikan Indonesia, Indonesia   Dadi Rusdiana; Achmad Samsudin; Riandi  Design Thinking in Science Education: A Challenge and an Opportunity	
6	ABS-ICMSCE- 24203 Arip Nurahman   Universitas Pendidikan Indonesia, Indonesia   - Physics education student's interpretation of drawings depicting dye- sensitized solar cell as STEM-ESD activities created by Generative AI	

Online Session 2	Day 1 (July 8, 2024)	15:45 - 17:15
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-b7-9">https://bit.ly/icmsce-ps-on-b7-9</a>	PS.ON.B7
Category	Chemistry education and Physics Education	
Chairperson	Ana Silfiani Rahmawati	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24118 Ana Silfiani Rahmawati   Universitas Pendidikan Indonesia, Indonesia   Ida Hamidah, Achmad Samsudin, Diana Rochintaniawati Utilization of Thermodynamic Heat Capacity in Life: Systematic Literature Review	
2	ABS-ICMSCE-24237 Ghaida Prinisa Achmad   Universitas Pendidikan Indonesia, Indonesia   Muslim, Dadi Rusdiana The Usage of Comics in Physics Learning: A Systematic Review of the Indonesian Research Literature	
3	ABS-ICMSCE-24105 Anton Hartanto   State University of Surabaya, Indonesia   Nizar Rizki Rahman, Imam Sya'roni, Agus Dwi Prasetyono, Irfan Subiantoro Automatic Calibration Equation for Microcontroller Based Dip Coater Tools with Point Capture Calibration System	
4	ABS-ICMSCE-24192 Hartono Bancong   Universitas Muhammadiyah Makassar, Indonesia   - Immersive learning in quantum physics: Designing and validating a virtual reality prototype for photoelectric effect experiments	
5	ABS-ICMSCE-24224 Sitti Hasaniyah   Universitas Negeri Makassar, Indonesia   Agus Susanto Evaluation of Shear Wave Velocity at Rammang-Rammang Maros Karst Area Tn Babul Using Microtremor Data	
6	ABS-ICMSCE-24215 Deklin Frantius   Universitas Pendidikan Indonesia, Indonesia   Liliyasi, Edy Soewono, Asep Bayu Dani Nandiyanto Applying the Logistic Function of the Temperature Changes in Aqueous Glucose Modeling	

Online Session 2	Day 1 (July 8, 2024)	15:45-17:15
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-b7-9">https://bit.ly/icmsce-ps-on-b7-9</a>	PS.ON.B8
Category	Physics Education	
Chairperson	Nur Aini	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24197 Nur Aini   Universitas Pendidikan Indonesia, Indonesia   Dadi Rusdiana Motivation learning in Physics Education Research on the Scopus Database over two Decades: Bibliometric Analysis	
2	ABS-ICMSCE-24110 Rezqi Sri Saleko Putri   Universitas Negeri Makassar, Indonesia   Jasruddin, Mustafa Preliminary Research on the Development of Ethnoscience-Based Science Teaching Modules for Students at Majene Middle School	
3	ABS-ICMSCE-24208 Dewi Dewantara   Universitas Lambung Mangkurat, Indonesia   Ismi Fajariah, Zainuddin, Mustika Wati, Sri Hartini Mapping of High School Physics Science Literacy Analyzed Using Instruments Based on Local Wisdom and Pancasila Student Profile	
4	ABS-ICMSCE-24222 Inas Aulia Majid   Universitas Jember, Indonesia   Sutarto, Indrawati, Bea Hana Siswati, Iwan Wicaksono Requirement Analysis of Assessment Instrument based Real Picture Analysis (RPA) at Senior High School Students	
5	ABS-ICMSCE-24177 Nisa Alyaumusyifa   Universitas Pendidikan Indonesia, Indonesia   Irma Rahma Suwarma, Ida Kaniawati The Rasch Model Analysis in Developing Instrument Test to Measure Creative Thinking Skills on Static Fluids	
6	ABS-ICMSCE-24214 Muh Alka   Universitas Muhammadiyah Makassar, Indonesia   - Analysis of the Use of Virtual Reality Media for Science Subjects: A Literature Study	

Online Session 2	Day 1 (July 8, 2024)	15:45 - 17:00
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-b7-9">https://bit.ly/icmsce-ps-on-b7-9</a>	PS.ON.B9
Category	Physics Education, Biology education and Science education	
Chairperson	Sri Zakiyah	
Presentation Program		
1	ABS-ICMSCE-24079 Sri Zakiyah   Universitas Pendidikan Indonesia, Indonesia   Irma Rahma Suwarma, Dadi Rusdiana Two Decades of Research on Physics Mobile Learning: A Bibliometrics Analysis	
2	ABS-ICMSCE-24081 Diana Zulyetti   Universitas Negeri Padang, Indonesia   - Empowering Traditional Ecological Knowledge through Project Based Learning Models to Enhancing Students Environmental Literacy	
3	ABS-ICMSCE-24083 Dewi Hikmah Marisda   Universitas Negeri Makassar, Indonesia   Ismail Tolla, Muhammad Arsyad Preliminary Research for The Development of a Modern Digital Physics E-Book	
4	ABS-ICMSCE-24070 Hazrati Ashel   Universitas Pendidikan Indonesia, Indonesia   Ida Hamidah, Sjaeful Anwar, Muslim The Importance of Developing Statistical Physics Lecture Models in Improving Mental Models and Problem Solving Skills	
5	ABS-ICMSCE-24170 Aghnia Nadhira Afa   Universitas Pendidikan Indonesia, Indonesia   Taufik Ramlan Ramalis, Ridwan Efendi Systematic Review of Test Instrument for Measuring Scientific Reasoning in the Last Decade	

Oral Session 2	Day 1 (July 8, 2024)	15:45 - 17:30
Room	S - 305	PS.OF.C6
Category	Science Education	
Chairperson	Saowaluk Poommarin	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24065 Saowaluk Poommarin   Kasetsart University, Thailand   Witat Fakcharoenphol The Development of Power Plant Board Game to Raise the Environmental Awareness for Elementary Students	
2	ABS-ICMSCE-24099 Tuswadi   SMP NEGERI 1 BANJARNEGARA, Indonesia   Takehiro HAYASHI Importance of Teacher Training in Disasters Prone Area: A Case Study on Teacher Training Program for Disaster Prevention Education in Central Java	
3	ABS-ICMSCE-24185 Jaka Afriana   Universitas Pakuan, Indonesia   Anna Permanasari Profiles of Science Teachers Competency in Managing Laboratory Activities at Secondary School: A Survey Study	
4	ABS-ICMSCE-24183 Chun Ju Huang   National Chung Cheng University, Taiwan   - Public Understanding and Attitudes towards AI: Implications for Science Education	
5	ABS-ICMSCE-24173 Eksa Sunarya   Universitas Pendidikan Indonesia, Indonesia   - The Development of Teaching Learning Application in Education for Sustainable Development (ESD) to Improve Students Critical Thinking and Sustainability Awareness in Biodiversity	
6	ABS-ICMSCE-24162 Toshinobu Hatanaka   Toho University, Japan   Nur Jahan Ahmad Perspectives for Studying Inquiry-Based Learning through Lesson Study in Malaysia	
7	ABS-ICMSCE-987244 Wentao Yao   East China Normal University, China   Yangying Wang; Guopeng Fu  Managerialism, Educational Equity, and Professional Development of Teachers: A Case of Groupalized Schools	

Online Session 2	Day 1 (July 8, 2024)	15:45-17:30
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-c2-5">https://bit.ly/icmsce-ps-on-c2-5</a>	PS.ON.C7
Category	Chemistry Education	
Chairperson	Alfred Tobok	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24250 Alfred Tobok   Universitas Pendidikan Indonesia, Indonesia   Ijang Rohman, Liliasari Use of laboratory instruction on the topic of liquid-liquid ternary phase diagrams: A Literature Review	
2	ABS-ICMSCE-24225 Try Hartiningsih   Universitas Trunojoyo Madura, Indonesia   Yamin Development of e-Module Assisted by Advance Organizer Integrated with Local Wisdom to Practice Critical Thinking Skills	
3	ABS-ICMSCE-24050 Wangi Pusva Kartini   Universitas Pendidikan Indonesia, Indonesia   Nahadi Student Perspectives in Implementing the Minimum Competency Assessment (AKM) in Chemistry Subjects	
4	ABS-ICMSCE-24239 Gun Gun Gumilar   Universitas Pendidikan Indonesia, Indonesia   Nahadi, Asep Kadarohman, F. M. Titin Supriyanti Evaluation of The Implementation of Biochemistry Lectures During the Covid-19 Pandemic	
5	ABS-ICMSCE-24190 January Prayogi   Universitas Pendidikan Indonesia, Indonesia   Nahadi, Heli Siti Halimatul Munawaroh Bibliometric Analysis: Trends in Critical Thinking Assessment Research in Senior High Schools	
6	ABS-ICMSCE-24140 Tuti Kurniati   Universitas Muhammadiyah Pontianak, Indonesia   Yerimadesi, Festiyed Improving Student Teaching Skills Through Multiple Strategies Model and Lesson Plan	
7	ABS-ICMSCE-24103 Peiyao Tian   The Education University of Hong Kong, Hong kong   Daner Sun Enhancing Conceptual Understanding and Essential Learning Skills in Chemistry through Micro Project-Based Learning (MPBL) Model	
8	ABS-ICMSCE-24219 Muhamad Farhan Ramadhan   Universitas Pakuan Preliminary Study of Cheminformatics-Based Learning Affect on Spatial Visualization Skills of High School Students in Macromolecule Study	

Online Session 2	Day 1 (July 8, 2024)	15:45-17:30
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-c7-11">https://bit.ly/icmsce-ps-on-c7-11</a>	PS.ON.C8
Category	Chemistry Education	
Chairperson	Vivi Mardian, S.Pd	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24093 Indah Langitasari   Universitas Pendidikan Indonesia, Indonesia   Ahmad Mudzakir, Elah Nurlaelah, Sunyono, Asep Wahyu Nugraha Development of Research on Computational Thinking Skills in Chemistry Education: A Systematic Literature Review	
2	ABS-ICMSCE-24157 Bibit Harianto   Universitas Pakuan, Indonesia   - Analysis of Students' Chemical Literacy Through Ethnochemical Learning in Materials Colligative Properties of Solution	
3	ABS-ICMSCE-24113 Elva Laila   Universitas Negeri Padang, Indonesia   Festiyed, Yerimadesi Problem-Based Learning: A Systematic Literature Review of Chemistry Education Research in Indonesia	
4	ABS-ICMSCE-24240 Faa'izah Abiyah Rihhadatul'aysi   Jakarta State University, Indonesia   Agung Purwanto, Ucu Cahyana Development of flipbook media integrated sets on the subject of petroleum and alternative energy	
5	ABS-ICMSCE-24028 Clarysa Satari   Universitas Pendidikan Indonesia, Indonesia   Wiji, Tuszie Widhiyanti Reaction Rate of the Last Chemist: An Intertextual-Based Educational Game on the Concept of the Effect of Concentration on Reaction Rate	
6	ABS-ICMSCE-24073 Ayu Ashari   Universitas Pendidikan Indonesia, Indonesia   Sjaeful Anwar, Omay Sumarna Development of Chemical Teaching Materials on Alcohol Compounds with the Context of Making Bioethanol from Cassava Peels (Manihot esculenta) to Build Environmental Literacy	
7	ABS-ICMSCE-24135 Salastri Rohiat   Universitas Pendidikan Indonesia, Indonesia   - Identifying Creativity in Organic Chemistry Practicum: A Bibliometric Review	



Online Session 2	Day 1 (July 8, 2024)	15:45 - 17:15
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-c7-11">https://bit.ly/icmsce-ps-on-c7-11</a>	PS.ON.C9
Category	Biology Education	
Chairperson	Farhan Alfiansyah	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24235 Farhan Alfiansyah   Universitas Pendidikan Indonesia, Indonesia   Yayan Sanjaya, Mimin Nurjhani Kusumastuti Private High School Student's Environmental Awareness	
2	ABS-ICMSCE-24226 Ai Juliani   Universitas Pakuan, Indonesia   - Profile of Creative Thinking Skills and Character Global Diversity of Primary School Students: How to Overcome?	
3	ABS-ICMSCE-24210 Iffa Ichwani Putri   Universitas Pendidikan Indonesia, Indonesia   Adi Rahmat, Riandi, Lala Septem Riza Evaluation of Instruments Assessing Cognitive Thinking Abilities of Students in Genetics Lectures	
4	ABS-ICMSCE-24097 Anisa Oktina Sari Pratama   Universitas Islam Negeri Raden Intan Lampung, Indonesia   Dzulhi Maulana Yusup, Nur Hidayah, Raicha Oktafiani, Aryani Dwi Kesumawardani Optimizing Science Literacy Skills for Disaster Mitigation in Biodiversity: A Sustainable Education Approach	
5	ABS-ICMSCE-24078 Jasmine Nurul Izza   Universitas Negeri Malang, Indonesia   - Exploring the Effect of the Problem-Based Learning Model on Understanding Human Heredity Patterns: A Quasi-Experimental Study Among Secondary School Student	
6	ABS-ICMSCE-24040 Jota Sakashita   Tokyo University of Science, Japan   Fumiko Okiharu Development of teaching materials to visualize various scientific phenomena such as the bactericidal action of ultraviolet rays with bioassays using lactic acid bacteria	

Online Session 2	Day 1 (July 8, 2024)	15:45 - 17:15
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-c7-11">https://bit.ly/icmsce-ps-on-c7-11</a>	PS.ON.C10
Category	STEM and ESD	
Chairperson	Haura Dzakira Sahla	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24218 Haura Dzakira Sahla   Universitas Pendidikan Indonesia, Indonesia   - Development of Food Literacy Co-curricular Program in School for Primary School Student in Phase A (Grades 1 & 2)	
2	ABS-ICMSCE-24199 Umi Sayidatus Zakiya   Universitas Pendidikan Indonesia, Indonesia   - Exploring sustainability awareness as a profile of environmental attitudes towards secondary education in Jepara, Central Java	
3	ABS-ICMSCE-24175 Niva Nurjiwa   Universitas Pendidikan Indonesia, Indonesia   - Integration of ESD and Green Chemistry in the Nanomaterials Learning	
4	ABS-ICMSCE-24021 Rizki Maulana Ashidiq   Universitas Pendidikan Indonesia, Indonesia   Chun-Yen Chang, Ari Widodo Analyzing The Impact of STEM-ESD Learning Towards Sustainable Competencies: Systematical Review of STEM-ESD Learning	
5	ABS-ICMSCE-24228 Rahmah Evita Putri   Universitas Negeri Padang, Indonesia   Aristo Hardinata, Rani Oktavia, Monica Prima Sari Gender Difference on Critical Thinking of Secondary Students after The Implementation of PjBL-STEM	
6	ABS-ICMSCE-24144 Junardi Harahap   Universitas Padjadjaran, Indonesia   - Health and Technology-Based Learning About Ginger Plants for Adolescent Learning	

Online Session 2	Day 1 (July 8, 2024)	15:45 - 17:30
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-c7-11">https://bit.ly/icmsce-ps-on-c7-11</a>	PS.ON.C11
Category	ESD	
Chairperson	Khaliza Annisa Zain	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24236 Khaliza Annisa Zain   Universitas Pendidikan Indonesia, Indonesia   - The Analysis of ESD-Based Science Learning in the Classification of Living Things Topic for Junior High School Students	
2	ABS-ICMSCE-24220 Wiwin Puspita Hadi   Universitas Trunojoyo Madura, Indonesia   Aida Fikriyah, Faizatul Holidiah Development of Local Wisdom Based-Module “Batik Tulis Tanjung Bumi Madura” to Support Education for Sustainable Development (ESD)	
3	ABS-ICMSCE-24137 Lathifah Radha Istiyova   Universitas Sebelas Maret, Indonesia   - Using System Thinking Skill in Research Biology for Sustainable Development Goals: A Systematic Review	
4	ABS-ICMSCE-24204 Alya Puspita Zahra   Mulawarman University, Indonesia   Greny Mispi Anisa Sari, Nurul Fitriyah Sulaeman, Shelly Efwinda, Atin Nuryadin Energy & Environmental Sustainability in The New Capital City of Indonesia: Voices of Junior High School Student	
5	ABS-ICMSCE-24254 Samudra Mutiara Hasanah   Universitas Negeri Malang, Indonesia   Sri Rahayu, Oktavia Sulistina, Devi Mariya Sulfa High School Students' Understanding of the Sustainability Consciousness of Development Goals	
6	ABS-ICMSCE-24016 Rizky Agassy Sihombing   Universitas Pendidikan Indonesia, Indonesia   Muslim, Taufik Rahman Sustainability Awareness Profile of Students through Education for Sustainable Development (ESD) Integration in Science Learning on the Topic of Environmental Issues Among Secondary School	
7	ABS-ICMSCE-24207 Anis Muyassaroh   Universitas Pendidikan Indonesia, Indonesia   Asep Supriatna; Hernani Preliminary study: Application of Education for Sustainable Development in Chemistry Learning on the topic of extraction of anthocyanin compounds from red dragon fruit peel as a natural food coloring	



*Joint Conference EASE - ICMScE 2024*

***Day 2 (July 9, 2024)***

Oral Session 1	Day 2 (July 9, 2024)	14:30-16:00
Room	S - 301	PS.OF.D1
Category	Biology Education	
Chairperson	Heesoo Ha	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24017 Heesoo Ha   Seoul National University, Republic of Korea   - Developing a Framework of Students' Application of Conceptual Understanding in Designing Sensemaking Processes	
2	ABS-ICMSCE-24054 Rahmi Aini   Middle Tennessee State University, USA   M. Ellizabeth Barnes Exploring the effect of students' and professors' religious identity on increasing students' perceived compatibility between evolution and religion	
3	ABS-ICMSCE-24159 Chunlei Zhang   East China Normal University, China   - From Experience to Expertise: A Case Study of Biology Teachers' Pedagogical Content Knowledge Development	
4	ABS-ICMSCE-24262 Suratno   Universitas Jember, Indonesia   - Equity Education and Scientific Literacy in Online Learning: Integrating Technological Pedagogical Content Knowledge (TPCK) with Local Wisdom in Agroindustrial School Regions	
5	ABS-ICMSCE-24115 Risanti Dhaniaputri   Universitas Ahmad Dahlan, Indonesia   - Need Analysis of Plant Metabolism Learning Module Assisted by In-silico Bioinformatics	
6	ABS-ICMSCE- 24266 Rita Retnowati   Universitas Pakuan, Indonesia   Rita Istiana Development of Biology Learning Media: E-Magazine Results of Field Research on Water Pollution in The Cigayam River to Increase Students' Awareness of River Conservation	

Oral Session 1	Day 2 (July 9, 2024)	14:30-16:00
Room	S - 302	PS.OF.D2
Category	ESD	
Chairperson	Gita Nurul Puspita	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24151 Gita Nurul Puspita   Universitas Pendidikan Indonesia, Indonesia   - Analysis of Sustainable Lifestyle Projects in Junior High School	
2	ABS-ICMSCE-24074 Zuana Habibaturohmah   Universitas Pendidikan Indonesia, Indonesia   Ida Kaniawati, Rini Solihat, Haryanto Exploring Opportunities and Challenges in Implementing STEM-ESD Learning in Education: A Systematic Literature Review	
3	ABS-ICMSCE-24030 Karen Onodera   Kyoto Koka Women's University, Japan   Hiroki Fujii Developing Science Teachers' Teaching Skills for Natural Disasters: Through the Use of Ancestors' Views on Nature as Reflected in Folktales	
4	ABS-ICMSCE-24161 Defrizal Hamka   Universitas Pendidikan Indonesia, Indonesia   - Investigating Technology and Engineering Literacy of Students in Integrated Science Education: A Case Study	
5	ABS-ICMSCE- 24034 Nengsih Kumala Sari   SMP Al Minhaj Tamansari, Indonesia   Leny Heliawati Designing Science Learning with ESD Content Using Lerak Plants In Biotechnology Material	
6	ABS-ICMSCE-24259 Tomohiro Takebayashi   Yamagata University, Japan   Nurul Fitriyah Sulaeman Questionnaire survey on memories and knowledge of past mega earthquakes for second-year students of the Faculty of Education: Disaster Prevention Science Education	

Online Session 1	Day 2 (July 9, 2024)	14:30-15:45
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-d3-5">https://bit.ly/icmsce-ps-on-d3-5</a>	PS.ON.D3
Category	Biology Education	
Chairperson	Yenni Verawati	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24247 Yenni Verawati   Universitas Pendidikan Indonesia, Indonesia   Adi Rahmat, Yayan Sanjaya The Use of Augmented Reality as an Innovative Media in Biology Learning: A Literature Review	
2	ABS-ICMSCE-24217 Diana Yusni   Universitas Pendidikan Indonesia, Indonesia   Yayan Sanjaya, Kusnadi Innovative Biology Learning Integrated with Character Value Education: Systematic study of National Journal Article Indexed Sinta	
3	ABS-ICMSCE-24046 Mira Kusumaningrum   Yogyakarta State University, Indonesia   Slamet Suyanto, Suhartini, Paidi The Potential of Turtle Conservation at Pelangi Bantul Beach Yogyakarta as A Source for Biology Learning Sustainable	
4	ABS-ICMSCE-24156 Asyah Hastika   Universitas Pendidikan Indonesia, Indonesia   Saefudin, Bambang Supriatno Developing Sustainability Competencies of Critical and Anticipatory Thinking through Botanical Eco-Gamification Program	
5	ABS-ICMSCE-24008 Rifanissa Eka Pratiwi   Universitas Negeri Malang, Indonesia   Siti Zubaidah, Vivi Novianti Enhancing Problem-Solving Skills in Biology using Problem-Based Learning integrated with Reading Questioning Answering Model	

Online Session 1	Day 2 (July 9, 2024)	14:30-15:45
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-d3-5">https://bit.ly/icmsce-ps-on-d3-5</a>	PS.ON.D4
Category	Science Education, Biology Education	
Chairperson	Eun-Jeong Kim	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24060 Eun-Jeong Kim   Gyeongin National University of Education, South Korea   Myeong-Kyeong Shin Exploring Teacher Agency Research: A Systematic Review	
2	ABS-ICMSCE-24111 Sally Gutierrez   National Academy of Science and Technology, Philippines   Moonhyun Han Elementary school science teachers' enactment of epistemic empathy as a responsive	
3	ABS-ICMSCE-24018 Siti Fatimah   Universitas Negeri Semarang, Indonesia   Muhamad Chamdani, Khaerus Syahidi Using Virtual Laboratory Perception of Pre-Service Teacher in Inquiry Learning for Fostering Scientific Process Skills	
4	ABS-ICMSCE-24096 Wiwit Yuli Lestari   Universitas Pendidikan Indonesia, Indonesia   Hertien Koosbandiah Surtikanti, Taufik Rahman, Riandi Profile and Urgency of Training Needs for Science Teachers in Designing Student Worksheet	
5	ABS-ICMSCE-24012 Irna Kurniaty   Universitas Negeri Malang, Indonesia   Siti Zubaidah, Sitoresmi Prabaningtyas Does the Reading Concept Mapping Think Pair Share Model Improve Students' Collaboration Skills?	



Online Session 1	Day 2 (July 9, 2024)	14:30 - 16:00
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-d3-5">https://bit.ly/icmsce-ps-on-d3-5</a>	PS.ON.D5
Category	Biology Education	
Chairperson	Waliyyatu Azzahra	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24057 Waliyyatu Azzahra   Universitas Pendidikan Indonesia, Indonesia   Sariwulan Diana, Eni Nuraeni Teacher's Perception of biology learning based on numeracy literacy.	
2	ABS-ICMSCE-24106 Rena Silvia Agustina   Universitas Negeri Malang, Indonesia   Siti Zubaidah, Hendra Susanto Empowering Students' Collaboration Skills Through Remap-STAD Assisted by The GitMind Application on Biology Learning	
3	ABS-ICMSCE-24038 Hsin Chen   National Changhua University of Education, Taiwan   Meichun Lydia Wen From biology to technology: A narrative study of a non-specialist teacher's teaching beliefs and approaches in Taiwan's new technology curriculum	
4	ABS-ICMSCE-24242 Angga Dwi Saputra   Universitas Pendidikan Indonesia, Indonesia   Ana Ratna Wulan, Eni Nuraeni Measuring Epistemic Knowledge in Biology Through Assessment: A Systematic Literature Review	
5	ABS-ICMSCE-24107 Suci Arsi Ramdhani   Universitas Negeri Malang, Indonesia   Siti Zubaidah, Sitoresmi Prabaningtyas Remap-TPS integrated Flipped Classroom to Enhance Students' Digital Literacy in Biology Learning	
6	ABS-ICMSCE-24149 Natasya Adiba Zahrah   State University of Malang, Indonesia   Sinta Kharomah, Muhamad Justitia Ramadhan, Deny Setiawan, Siti Zubaidah The Effect of a Virulent Attack Role Playing Game on Enhancing Students' Collaboration Skills	

Oral Session 1	Day 2 (July 9, 2024)	14:30 – 15:45
Room	S - 303	PS.OF.E1
Category	STEM	
Chairperson	Nurul Fitriyah Sulaeman	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24127 Nurul Fitriyah Sulaeman   Universitas Pakuan, Indonesia   Shelly Efwindi, Atin Nuryadin, Pramudya Dwi Aristya Putra Mulawarman University Integrating Engineering into K-12 Science: Analyzing Indonesia's Educational Transformation	
2	ABS-ICMSCE-24198 Astrino Purmanna   Universitas Jember, Indonesia   - Investigating the Dynamics of Changes in Teacher Perceptions of Coding Robotics in STEM Teaching Through the Teacher Professional Development Program	
3	ABS-ICMSCE-24255 Refsya Aulia Fikri   Universitas Negeri Malang, Indonesia   - Sustainability Literacy Profile of Secondary School Students: A Survey to Initiate Sustainability Education through STEM-Integrated Biology Instruction	
4	ABS-ICMSCE-24229 Tomotaka Kuroda   Tama University/ Shizuoka University, Japan   - A Study on Program Development and Management of a First-Year Experience Program for STEM Human Resources: Focusing on Design and Effectiveness of Online Learning due to COVID-19	
5	ABS-ICMSCE- 24265 Prihastuti Harsani   Universitas Pakuan, Indonesia   Dwi Prasetyo Cyber Counselling Modeling with Artificial Intelligence Approach	

Online Session 1	Day 2 (July 9, 2024)	14:30 – 15:45
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-e2-4">https://bit.ly/icmsce-ps-on-e2-4</a>	PS.ON.E2
Category	Computer Education	
Chairperson	Agus Komarudin	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24249 Agus Komarudin   Universitas Lampung, Indonesia   Wamiliana, Akmal Junaidi, Dian Kurniasari Graph Visualization Using Python: Spring Layout with Angle Adjustment	
2	ABS-ICMSCE-24015 Nusuki Fatimah   Universitas Pendidikan Indonesia, Indonesia   Andini Setya Arianti, Enjun Junaeti, Putri Zukhruf Dinata Insights into Learning Obstacles: A Focus on Student Problem Solving with Simple Structured Data Using Computational Thinking	
3	ABS-ICMSCE-24098 Dodi Yudo Setyawan   Universitas Lampung, Indonesia   Warsito A Method for Modeling Temperature Base on Decision Tree in the Smart Greenhouse	
4	ABS-ICMSCE-24075 Ina Sholihah Widiati   STMIK AMIKOM Surakarta, Indonesia   Syams Kurniawan Hidayat, Yeni Widiyawati, Dwi Septiana Sari Evaluation of the Mobile-Based Traditional Game Application with a User Experience Approach	

Online Session 2	Day 2 (July 9, 2024) 14:30 – 15:45	
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-e2-4">https://bit.ly/icmsce-ps-on-e2-4</a>	PS.ON.E3
Category	Mathematics Education	
Chairperson	Khairiani Idris	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24027 Khairiani Idris   IAIN Lhokseumawe, Indonesia   Nurul Akmal Conceptions of Statistics of Indonesian Pre-Service Mathematics Teachers and its Relations to Their Statistical Cognitions	
2	ABS-ICMSCE-24244 Woro Anglia Banda Sutomo   Universitas Pendidikan Indonesia, Indonesia   Turmudi The Implementation of Digital Technology in Mathematics Learning: A Systematic Literature Review	
3	ABS-ICMSCE-24179 Purwati   Universitas Papua, Indonesia   Falenthino Sampouw Mathematics learning tenacity: Is it influenced by student attitudes?	
4	ABS-ICMSCE-24152 Fauziah Annisa Rahma  Universitas Pendidikan Indonesia, Indonesia  - The Effectiveness of Problem-Based Learning (PBL) Model on Students' Mathematical Critical Thinking Skills: A Meta-Analysis Study	

Online Session 3	Day 2 (July 9, 2024)	14:30 – 15:45
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-e2-4">https://bit.ly/icmsce-ps-on-e2-4</a>	PS.ON.E4
Category	Mathematics Education	
Chairperson	Nusrotul Bariyah	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24019 Nusrotul Bariyah   Universitas Pendidikan Indonesia, Indonesia   Jarnawi Afgani Dahlan, Suhendra Unveiling Pedagogical Genius: Unraveling Challenges of Developing Numerical Literacy Problems Akin to AKM Standards	
2	ABS-ICMSCE-24033 Haidee Rosete   University of the Philippines National Institute for Science and Mathematics Education Development, Philippines   Sally B. Gutierrez High school mathematics teachers' achievement emotions: Impacts on engagement and productivity in online and face-to-face professional development	
3	ABS-ICMSCE-24020 Novia Dwi Rahmawati   Universitas Negeri Semarang, Indonesia   - Prospective Teachers' Mathematics Literacy in Solving Basic Combinatoric Problems Reviewed from Cognitive Style	
4	ABS-ICMSCE-24048 Ardon Jamdin   Universitas Negeri Semarang, Indonesia   - A systematic literature review: Mathematical critical thinking skills in the project based learning (PJBL) model from 2019-2023	

Oral Session 1	Day 2 (July 9, 2024)	13:45-15:15
Room	S - 305	PS.OF.F1
Category	Mathematics Education	
Chairperson	Isniet Yusnitha	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24263 Isniet Yusnitha   Universitas Pendidikan Indonesia, Indonesia   - Operator Algebras of Self-similar Groupoids	
2	ABS-ICMSCE-24258 Rozan Roif   Universitas Indonesia, Indonesia   - Use of LRFM Model for Customer Segmentation in The Grocery Industry Sector Using Density Based Clustering	
3	ABS-ICMSCE-24052 Tri Nova Hasti Yuniarta   Universitas Pendidikan Indonesia, Indonesia   Didi Suryadi, Yulia Nursari Understanding Students' Ontogenic Obstacles in Learning Geometry: Identifying the Psychological, Instrumental, and Conceptual Obstacles	
4	ABS-ICMSCE-24261 Kartika Yulianti   Universitas Pendidikan Indonesia, Indonesia   Khansa S. Rohadatul Aisy, Encum Sumiaty, Isniet Yusnitha Implementation of Illumination Problems to Place Modems in the FPMIPA-UPI Building	
5	ABS-ICMSCE-987242 Pan Tuo   Shaanxi Normal University, China   -  The Promotion of Teacher's Commognition to Students' Commognition during Online One-to-One Mathematics Teaching: The Mediating Effect of Teacher's Emotion	
6	ABS-ICMSCE-987241 Shang Li Visualizing Different Gender Students' Emotional Experience of Learning: Based on Large Data of Artificial Intelligence Assistant in Classroom	

Oral Session 1	Day 2 (July 9, 2024)	13:45-15:45
Room	S - 306	PS.OF.F2
Category	Science Education, ESD	
Chairperson	Ayu Nursalamah	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24206 Ayu Nursalamah   Universitas Pendidikan Indonesia, Indonesia   - Analyzing Teachers' Effectiveness in Integrating Education for Sustainable Development (ESD) on the Classification of Living Things topic	
2	ABS-ICMSCE-24080 Ryugo Oshima   Chiba University, Japan   Oscar Muriithi Students' and Teachers' Perceptions of Science Lessons with ICT in Japan	
3	ABS-ICMSCE-24066 Kusumar Ubonmoung   Kasetsart University, Thailand   Tussatrin Wannagatesiri Development and Validation of a Test for Exploring Middle School Students' Empathetic Problem-Solving Ability	
4	ABS-ICMSCE-24063 Melina Doil   Carl von Ossietzky Universität Oldenburg, Germany   - Collegial counseling in science teacher training using the example of lesson studies	
5	ABS-ICMSCE-24003 Shingo Uchinokura   Kagoshima University, Japan   Taito Yuge, Hiroaki Suzuki Examining pre-service teachers' perceptions of diverse learners in science teaching	
6	ABS-ICMSCE-24029 Khalifatulloh Fiel'ardh   Okayama University, Japan   Hiroki Fujii, Hana Rozman, Gregor Torkar ESD through the Lens of Prospective Science Teachers: Comparing Perspectives from Japan and Slovenia	
7	ABS-ICMSCE-24091 Pipih Nurhayati   Universitas Pendidikan Indonesia, Indonesia   Ari Widodo, Widi Purwianingsih, Achmad Samsudin Assessing the Effectiveness of Modified Instruments on Integrating Reflective Thinking Skills with Science Concepts	
8	ABS-ICMSCE-24062 Jessica Petereit   Carl-von-Ossietzky University Oldenburg, Germany   - Empowering Teachers in education of sustainable development: Innovative Workshops in chemistry, biology and computer science with limited resources	

Online Session 1	Day 2 (July 9, 2024)	13:45-15:45
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-f3-5">https://bit.ly/icmsce-ps-on-f3-5</a>	PS.ON.F3
Category	Mathematics Education	
Chairperson	Shafa Salsabila	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24238 Shafa Salsabila   Universitas Pendidikan Indonesia, Indonesia   Endang Cahya Mulyaning A Meta-Analysis: The Effect of Problem-Based Learning Models on Students' Mathematical Problem-Solving Ability	
2	ABS-ICMSCE-24067 Novi Yarmanetti   Yogyakarta State University, Indonesia   Sujarwo, Herwin, Haryanto, Fery Muhamad Firdaus Development of Problem Based Learning Integrated with Ethnomathematics to Improve Problem Solving Skills of Elementary School Students	
3	ABS-ICMSCE-24165 Solehudin   Universitas Pendidikan Indonesia, Indonesia   Darhim, Dadang Juandi The Effect of Learning Styles on Computational Thinking Ability	
4	ABS-ICMSCE-24077 Rahmy Zulmaulida   IAIN Lhokseumawe, Indonesia   Edy Saputra Rethinking Kerawang Gayo as Cultural Identity in Geometry Concept	
5	ABS-ICMSCE-24145 Ajeng Nur Aulia Fitriainingsih   Universitas Pendidikan Indonesia, Indonesia   - The Effectiveness of a Project-Based Learning Model with STEM Approach on Students' Mathematical Creative Thinking Ability: A Meta-Analysis Study	
6	ABS-ICMSCE-24108 Nyla Farhatul Maula   Universitas Pendidikan Indonesia, Indonesia   Didi Suryadi A Systematic Literature Review: Generalization in Solving Number Pattern Problems	
7	ABS-ICMSCE-24089 Seth Junior Nti   Universitas Pendidikan Indonesia, Indonesia   Al Jupri Investigating Algebraic Equation Problem-Solving Difficulties Among Junior High School Students in Ghana	
8	ABS-ICMSCE-24154 Novi Yarmanetti   Yogyakarta State University, Indonesia   Sujarwo, Herwin, Haryanto, Fery Muhamad Firdaus, Yoppy Wahyu Purnomo Ethnomathematics Problem-Based Learning In Improving Mathematical Problem-Solving Skills Of Elementary School Students: A Systematic Review Of 2020 To 2024	



Online Session 2	Day 2 (July 9, 2024)	13:45-15:45
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-f3-5">https://bit.ly/icmsce-ps-on-f3-5</a>	PS.ON.F4
Category	Mathematics Education	
Chairperson	Abdul Wahab A	
<b>Presentation Program</b>		
1	ABS-ICMSCE-24155 Abdul Wahab A   Universitas Pendidikan Indonesia, Indonesia   Dadang Juandi, Yaya S. Kusuma, Turmudi, Syaiful Unraveling Student Challenges in Problem-Solving: A Systematic Literature Review Based on Polya's Framework	
2	ABS-ICMSCE-24051 Idris Iskandar   Universitas Pendidikan Indonesia, Indonesia   Dadang Juandi, Wahyudin Mathematical Literacy in The PISA Framework: A Systematic Literature Review	
3	ABS-ICMSCE-24007 Arbella Sri Marleny. M   Universitas Sriwijaya, Indonesia   - Development of PISA Type AKM Questions Using the Context of Muara Enim Batik Based on PMRI and PJBL	
4	ABS-ICMSCE-24004 Enjun Junaeti   Universitas Pendidikan Indonesia, Indonesia   Dadang Juandi, Lala Septem Riza The Didactic of Vector Space: A Systematic Review between Diffusion and Acquisition Issues	
5	ABS-ICMSCE-24090 Epran   Universitas Pendidikan Indonesia, Indonesia   Yaya Sukjaya Kusumah Analysis of Student Numeracy in Solving Word Problems on Social Arithmetic Material	
6	ABS-ICMSCE-24132 Rahmanda Amrullah   Universitas Pendidikan Indonesia, Indonesia   Encum Sumiaty The Properties of W-Concave Function on Convex Metric Space	
7	ABS-ICMSCE-24195 Ganesha Gibran   Institut Teknologi Telkom Purwokerto, Indonesia   Wahyurini Ediningrum, Jamaludin Abdul Karim Comparison of Linear and Exponential Regression Models for Analyzing the Impact of QRIS Usage on Kereta Api Indonesia	
8	ABS-ICMSCE-24196 Jamaludin Abdul Karim   Institut Teknologi Telkom Purwokerto, Indonesia   Ganesha Rahman Gibran, Wahyurini Ediningrum, Yogo Dwi Prasetyo Comparison of Exponential and Quadratic Trend Equations on Trans Banyumas E-Money Transactions in 2023	

Online Session 1	Day 2 (July 9, 2024)	13:45-15:45
Zoom Link	<a href="https://bit.ly/icmsce-ps-on-f3-5">https://bit.ly/icmsce-ps-on-f3-5</a>	PS.ON.F5
Category	Mathematics Education	
Chairperson	Indah Widiati	
<b>Presentation Program</b>		
1	ABS-ICMSCE- 24253 Indah Widiati   Universitas Islam Riau, Indonesia   - Analysis of Middle School Student's Misconceptions in Solving Mathematics Problem Based on Education for Sustainable Development	
2	ABS-ICMSCE-24182 Rezi Ariawan   Universitas Negeri Semarang, Indonesia   - A systematic literature review: Mathematical critical thinking skills in the project based learning (PjBL) model from 2019-2023	
3	ABS-ICMSCE-24130 Benny Yong   Parahyangan Catholic University, Indonesia   - Various Vaccination Strategies to Tackle the Pandemic of an Infectious Disease	
4	ABS-ICMSCE-24126 Beni Junedi   Universitas Negeri Semarang, Indonesia   - Thinking Styles in Mathematics Learning: A Systematic Review between 2019-2023	
5	ABS-ICMSCE-24143 Tata Frarisia   Universitas Pendidikan Indonesia, Indonesia   Sufyani Prabawanto, Al Jupri A Systematic Literature Review: Reversible Thinking in Mathematical Problem-Solving	
6	ABS-ICMSCE-24121 Ni Komang Savitri Dharma Suarka   Universitas Pendidikan Indonesia, Indonesia   Yaya S. Kusumah How Exponential Function are Studied: A Praxeological Analysis of an Indonesian Textbook	
7	ABS-ICMSCE-24142 Budi Rianto   Universitas Pendidikan Indonesia, Indonesia   Kusnandi, Al Jupri Empirical Research on Computational Thinking in Mathematics Learning: A Systematic Literature Review	

## POSTER SESSION

Offline	Day 1 (July 8, 2024)	11:30-12.00 WIB
Place	The Hall of Auditorium JICA FPMIPA UPI	
1	Sohibun Sohibun   Universitas Pendidikan Indonesia, Indonesia   Kurniawan, A; Samsudin, A; Suhandi, A Problem Solving based learning for Complex Problem Solving learning models in Science Education: a case study in	
2	Shin, Myeong-Kyeong, Kim, Eun-Jeong Science Education Department Gyeongin National University of Educationru Exploring Teacher Agency Research: A Systematic Review	
3	Pipih Nurhayati   Universitas Pendidikan Indonesia, Indonesia   Ari Widodo, Widi Purwianingsih, Achmad Samsudin Assessing the Effectiveness of Modified Instruments on Integrating Reflective Thinking Skills with Science Concepts	
4	Ruqayyah   Universitas Pendidikan Indonesia, Indonesia   Liliasari, Hendrawan, Budiman Anwar The Evaluation of Physical Chemistry Laboratory Course Implementation	
5	Yu-Ling Lu, Chih-Ai Yeh   Department of Science Education, National Taipei University of Education The Impact of Integrating Subcultural Materials into CLIL-Based Bilingual Science Courses on Students' Scientific Reasoning Skills	
6	Rahmi Zulva   Universitas Pendidikan Indonesia, Indonesia   Agus Setiawan, Andi Suhandi, Achmad Samsudin Analysis of Articles Indexed in Scopus Regarding the Use of Computer Models in Science Learning: Systematic Literature Network Analysis	
7	Defrizal Hamka   Universitas Pendidikan Indonesia, Indonesia   Investigating Technology and Engineering Literacy of Students in Integrated Science Education: A Case Study	
8	Michael Peetz   Carl von Ossietzky Universität, Germany   TeachSynergy: A project to integrate SDGs in countries with limited resources	
9	Deni Moh Budiman   Universitas Pendidikan Indonesia, Indonesia   Dadi Rusdiana; Achmad Samsudin; Riandi Design Thinking in Science Education: A Challenge and an Opportunity	
10	Eliyawati   Universitas Pendidikan Indonesia, Indonesia   Ari Widodo, Ida Kaniawati, Hiroki Fujii A Decade of Teacher Training Trends on Education for Sustainable Development (ESD): A Systematic Literature Network Analysis	
11	Muhamad Taufiq   Universitas Negeri Semarang, Indonesia   Ida Kaniawati, Liliasari, Achmad Samsudin Development of Baseball Hitter Simulation Using Scratch Program to Enhance Generic Science Skills on Impulse and Momentum Concept	

## EASE-ICMSce Joint Conference 2024

# Information

### Time Conversion Information

Western Indonesian Standard Time (WIB) is GMT +7

GMT	JST	KST	CST	HKT	ICT	WIB	WITA	WIT
+0	+9	+9	+8	+8	+7	+7	+8	+9

### Seminar Venue

Universitas Pendidikan Indonesia  
Jl. Dr. Setiabudi No.229, Isola, Kec. Sukasari, Kota Bandung, Jawa Barat 40154  
<https://maps.app.goo.gl/VCMW49Rizqyn5a7e6>


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### Zoom Virtual Background



[https://bit.ly/icmsce\\_zoom\\_virtual\\_background](https://bit.ly/icmsce_zoom_virtual_background)

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