



DIKTISAINTEK
BERDAMPAK



PROGRAM BOOK

The 6th ISST 2026

**The 6th International Seminar of Science and
Technology 2026**

Held in Conjunction with

SEMIRATA BKS-PTN Barat 2026

Seminar dan Rapat Tahunan
Badan Kerja Sama Perguruan Tinggi Negeri (BKS-PTN) Wilayah Barat
Bidang Matematika dan Ilmu Pengetahuan Alam (MIPA)

**Advancing Science and Technology
for Sustainable Environment and
Resource Management**

Organized by the Faculty of Science and Technology,
Universitas Terbuka



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ISST CHAIRMAN REMARKS

The 6th International Seminar of Science and Technology (The 6th ISST): "Advancing Science and Technology for Sustainable Environment and Resource Management"
Universitas Terbuka, October 12th - 13th, 2026



Assalamu'alaikum wa rahmatullahi wa barakatuh.

Good morning,

- **Honorable Keynote Speaker, Prof. Stella Christie, A.B., Ph.D., Deputy Minister of Higher Education, Science, and Technology, Republic of Indonesia.**
- Distinguished Rector of Universitas Terbuka, **Prof. Dr. Ali Muktiyanto, S.E., M.Si.,**
- Distinguished plenary speakers,
- All Vice Rectors of Universitas Terbuka
- Respected leaders and representatives of BKS-PTN Barat, Deans, Vice Deans, Heads of Departments, Heads of Study Programs,

Representatives of supporting institutions and sponsors

Distinguished guests, presenters, participants, colleagues, and students.

It is my great pleasure, on behalf of the Organizing Committee, to present the Conference Chair's Report for **The 6th International Seminar of Science and Technology, or ISST 2026**, held in conjunction with **SEMIRATA BKS-PTN Barat 2026**.

This event is organized by the **Faculty of Science and Technology, Universitas Terbuka**, and is held on **October 12th and 13th, 2026**, at the Universitas Terbuka Convention Centre, as well as through online platforms. The conference is part of the celebration of the **42nd Anniversary of Universitas Terbuka**.

This year, ISST carries the theme:

"Advancing Science and Technology for Sustainable Environment and Resource Management."

Through this theme, ISST 2026 aims to provide an international forum for researchers, academics, practitioners, policymakers, students, and industry partners to exchange ideas, disseminate research findings, and strengthen interdisciplinary collaboration toward innovative and sustainable solutions for environmental and resource-management challenges.

The conference addresses several important areas, ranging from applied sciences for sustainable development, intelligent technologies for environmental monitoring and sustainable systems,

sustainable agriculture and food-industry development, to sustainable regional planning and environmental management for resilient communities.

Ladies and gentlemen,

We are pleased to report the very encouraging participation in this year's conference.

The Committee of ISST 2026 has recorded 117 presenters and 186 registered as participants. They are from Indonesia, Malaysia, Pakistan, Algeria, and Singapore. They attending in-person and online. These numbers demonstrate the growing interest in ISST as a platform for scientific exchange and collaboration beyond institutional and national boundaries.

This year's ISST is especially meaningful as it is held in conjunction with the **2026 Annual Meeting of BKS-PTN Barat for Mathematics and Natural Sciences**. The annual meeting has recorded **113 participants**, from 20 universities, comprising **Deans, Vice Deans, Heads of Departments or equivalent positions, Heads of Study Programs, and journal management representatives**.

The presence of academic leaders from various institutions is expected to further strengthen collaboration among universities, particularly in education, research, scientific publication, and institutional development. The official program includes the ISST seminar, the BKS-PTN Barat Annual Meeting, institutional collaboration activities, and parallel knowledge-sharing sessions over the two-day event.

Another important component of ISST 2026 is the **Student Research Poster Competition**. This year, **31 research posters** have been selected as finalists across four sub-themes. The posters are being evaluated online from October 5th to 12th and will also be exhibited during ISST 2026.

Ladies and gentlemen,

Beyond scientific presentations, we are committed to ensuring that the research presented at ISST can continue toward wider academic dissemination.

Therefore, several **publication opportunities** have been prepared for participating authors. These include an **online ISSN proceeding**, publication opportunities through journals of the Faculty of Science and Technology and partner journals, as well as other national and international publication channels. The conference also recognizes excellent scientific contributions through the **ISST 2026 Best Paper, Best Presenter, and Best Student Research Poster Awards**.

On behalf of the Organizing Committee, I would like to express our sincere gratitude to the **Rector of Universitas Terbuka, the leadership of the Faculty of Science and Technology, BKS-PTN Barat, our keynote and plenary speakers, scientific reviewers, moderators, session chairs, partner institutions, sponsors and supporting units, as well as all committee members** who have dedicated their time and effort to preparing this event.

Our sincere appreciation also goes to all presenters and participants, both from Indonesia and overseas. Your participation is what makes this international academic forum meaningful.

We hope that **The 6th ISST 2026 and SEMIRATA BKS-PTN Barat 2026** will not simply be a meeting for presenting research findings, but will also serve as a starting point for stronger academic networks, research collaboration, scientific publications, and concrete initiatives that contribute to sustainable development.

Finally, we wish all presenters a productive presentation, all participants fruitful discussions, and all distinguished guests an enjoyable experience throughout the conference.

Welcome to The 6th International Seminar of Science and Technology and SEMIRATA BKS-PTN Barat 2026.

May this event bring valuable knowledge, meaningful collaboration, and lasting impact for all of us.

Thank you.

Wassalamu'alaikum warahmatullahi wabarakatuh.

Tangerang Selatan, October 12th, 2026

Chairman of ISST 2026,
Dr. Sitta Alief Farihati, S.Si., M.Si.

DEAN OF FACULTY OF SCIENCE AND TECHNOLOGY REMARKS

The 6th International Seminar of Science and Technology (The 6th ISST): "Advancing Science and Technology for Sustainable Environment and Resource Management"

Universitas Terbuka, October 12th - 13th, 2026



Bismillahirrahmanirrahim

Assalamu'alaikum warahmatullahi wabarakatuh,
Om Swastiastu,
Namo Buddhaya,
Salam Kebajikan.

Honorable Keynote Speaker :

Prof. Stella Christie, A.B., Ph.D.

Deputy Minister of Higher Education, Science, and Technology, Republic of Indonesia.

Honorable Plenary Speakers:

1. **Dr. Bruce Alberts**, University of California, San Francisco
2. **Prof. Edward Aspinall**, Australian National University, Australia
3. **Distinguished Professor Muhammad Aziz**, Tohoku University, Japan
4. **Dr. Somporn Chuai-aree**, Prince of Songkla University, Thailand.

Our Honorable:

1. Rector of Universitas Terbuka
2. Representatives of the Association of State Universities in the Western Region for Mathematics and Natural Sciences Indonesia, or **BKS PTN Barat**
3. Chairman of the Academic Senate Universitas Terbuka, Prof. Dr. Chanif Nurcholis, M.Si.
4. Vice-Chairman of the Board of trustees Universitas Terbuka, Dr. Ake Wihadanto, M.Si.
5. All Vice Rectors, Deans, Director of Postgraduate School, Heads of Institutions, and Heads of Units at Universitas Terbuka
6. Fellow Deans and representatives of our partner universities
7. Representatives of supporting institutions and sponsors
8. All of my dearest colleagues at Universitas Terbuka, Professors and Lecturers
9. Presenters and participants of ISST 2026
10. Distinguished students, guests, ladies and gentlemen.

It is a great pleasure and honor for me, on behalf of the **Faculty of Science and Technology, Universitas Terbuka**, to warmly welcome all of you to **The 6th International Seminar on Science and Technology, ISST 2026**.

This year's seminar carries the theme:

“Advancing Science and Technology for Sustainable Environment and Resource Management.”

This theme reflects one of the most important challenges of our time. As science and technology continue to develop rapidly, we are also facing increasingly complex global issues, including climate change, environmental degradation, food and energy security, sustainable urban development, and the responsible management of natural resources. These challenges require us to continuously strengthen scientific innovation and transform knowledge into practical solutions that can benefit society and the environment.

Science and technology have always played a significant role in improving the quality of human life. They support economic growth, strengthen national competitiveness, transform industries, and create new possibilities for addressing social and environmental challenges.

However, scientific and technological advancement should not be separated from our responsibility to ensure sustainability. Progress must be directed not only toward achieving greater efficiency and innovation, but also toward protecting the environment, using natural resources responsibly, and ensuring that future generations can continue to benefit from them.

In this context, **Science, Technology, Engineering, and Mathematics, or STEM**, have become increasingly important. STEM provides a strong foundation for developing innovative solutions to global challenges, such as climate change, renewable energy, food security, digital transformation, sustainable infrastructure, and environmental protection.

These efforts are also closely related to the achievement of the **Sustainable Development Goals, or SDGs**, and Indonesia's national development priorities. Therefore, collaboration among universities, research institutions, government, industries, and communities is becoming increasingly important in transforming scientific knowledge into meaningful and sustainable actions.

Ladies and Gentlemen,

This seminar serves as an important platform for academics, researchers, students, practitioners, policymakers, and other stakeholders to exchange ideas, share research findings, introduce innovative approaches, and strengthen interdisciplinary and international collaboration.

The sub-themes of ISST 2026 cover a broad range of important areas, including **advancing applied sciences for sustainable development and environmental challenges, intelligent technologies for environmental monitoring and sustainable systems, sustainable agriculture and innovation in food industry development, as well as sustainable regional planning and environmental management for resilient communities.**

These sub-themes demonstrate that sustainability is a multidimensional challenge. Environmental and resource-management problems cannot be addressed by one scientific discipline alone. They require collaboration between experts in mathematics, statistics, biology, information systems, data science, agriculture, food technology, environmental science, fisheries, urban and regional planning, and many other related fields.

Through this event, we hope to strengthen our collective efforts in connecting **scientific discovery with real-world applications**. The Faculty of Science and Technology at Universitas Terbuka remains strongly committed to supporting open, inclusive, collaborative, and transformative research.

The 6th ISST 2026 is also particularly meaningful because it is organized in celebration of the 42nd Anniversary of Universitas Terbuka and is combined with the Annual Meeting activities of the Association of State Universities in the Western Region for Mathematics and Natural Sciences Indonesia, SEMIRATA BKS PTN Barat.

We hope that this collaboration will further strengthen academic networks among universities, expand opportunities for joint research, and encourage the development of innovative scientific

solutions for national and global challenges.

I would like to take this opportunity to express my sincere appreciation to our Keynote Speaker and distinguished Plenary Speakers for graciously sharing their knowledge, expertise, and experiences with us. My sincere gratitude also goes to BKS PTN Barat, our partner universities, supporting journals, institutions, sponsors, the organizing committee, presenters, participants, and all parties whose dedication and contribution have made this seminar possible.

Finally, I hope this seminar will inspire meaningful discussions, generate innovative ideas, strengthen interdisciplinary and international collaboration, and create new opportunities for research and innovation. May the discussions and knowledge shared during ISST 2026 lead to impactful actions and practical solutions for sustainable environmental and resource management.

Thank you very much for your kind attention.

Wassalamu'alaikum warahmatullahi wabarakatuh

Tangerang Selatan, October 12th, 2026

Dean of the Faculty of Science and Technology Universitas Terbuka

Dr. Subekti Nurmawati, M.Si.

RECTOR REMARKS

The 6th International Seminar of Science and Technology (The 6th ISST): "Advancing Science and Technology for Sustainable Environment and Resource Management"
Universitas Terbuka, October 12th - 13th, 2026



Bismillahirrahmanirahim

*Assalamu'alaikum wa rahmatullahi wa barakatuh,
Om Swastiastu,
Namo Budhaya,
Salam Kebajikan,
Rahayu.*

Honourable Keynote Speaker:

Prof. Stella Christie, A.B., Ph.D.

Vice Minister of Higher Education, Science, and Technology of the Republic of Indonesia.

Honorable Plenary Speakers:

1. **Dr. Bruce Alberts**, from the University of California, San Francisco
2. **Prof. Edward Aspinall**, from the Australian National University
3. **Prof. Muhammad Aziz**, from Tohoku University
4. **Dr. Somporn Chuai-Aree**, from Prince of Songkla University, Thailand.

Respected Colleagues,

1. The Honorable Chairman of the Cooperation Board of State Universities of the Western Region (BKS PTN Barat)
2. The Honorable, Chairman of Academic Senate, Universitas Terbuka
3. The Honorable, Vice Rectors of Universitas Terbuka
4. The Honorable, Deans, particularly the Dean of the Faculty of Science and Technology, Universitas Terbuka as the host
5. The Honorable, Secretary of the Board of Trustees of Universitas Terbuka
6. The Honorable, Director of the Postgraduate School and the Director School of Vocation
7. The Honorable, Head of the Research and Community Service Institute
8. The Honorable, Professors and Lecturers of Universitas Terbuka
9. The Honorable, Heads of Units at Universitas Terbuka
10. The Honorable, Our distinguished sponsors and institutional representatives
11. The Honorable, Chairperson and all members of the Organizing Committee of the ISST and Annual Meetings of Semirata BKS PTN Barat 2026
12. The Honorable, Leaders of our partner universities, and all esteemed seminar participants joining us both in person and virtually.

It is a profound honor and privilege to welcome you to the 6th International Seminar of Science and Technology (ISST) and the Annual Meeting of Semirata BKS PTN Barat 2026, proudly

hosted by the Faculty of Science and Technology, Universitas Terbuka.

Distinguished guests,

This year's symposium holds profound institutional significance as it coincides with the 42nd anniversary of Universitas Terbuka. Since its inception, our university has remained steadfast in its mandate to democratize access to high-quality higher education across all strata of Indonesian society via a robust open and distance learning framework. This foundational ethos of inclusivity and boundless intellectual inquiry resonates deeply with the spirit of this international academic forum—an open nexus for scholars, researchers, practitioners, and policymakers worldwide to exchange pioneering ideas and technological innovations.

The central theme of this year's proceedings, “Advancing Science and Technology for Sustainable Environment and Resource Management,” acutely addresses the imperative global challenges of our time. Exigent issues such as anthropogenic climate change, ecological degradation, and the depletion of finite natural resources necessitate rigorous scientific intervention and the deployment of pragmatic, sustainable technologies. Strategic resource governance, agricultural resilience, and ecologically sound regional development are paramount to securing a sustainable paradigm for future generations.

Within the national context, this academic endeavor harmonizes seamlessly with the strategic development agenda delineated in the Asta Cita. This framework underpins the national vision of “**Bersama Indonesia Maju, Menuju Indonesia Emas 2045**,” particularly concerning our collective obligation to preserve ecological integrity and strategically manage natural resources as foundational assets for national development. Concurrently, this thematic focus is inseparable linked to the realization of the United Nations' Sustainable Development Goals (SDGs).

I wish to extend our deepest gratitude and highest commendation to the Honorable Vice Minister, our distinguished international experts, our strategic partners within the Cooperation Board of State Universities of the Western Region, and the meticulous organizing committee whose tireless dedication has culminated in this exceptional academic gathering.

Ladies and gentlemen,

It is our fervent aspiration that this forum transcends the conventional boundaries of scholarly discourse. We envision it as a catalyst for substantive and enduring research collaborations among academic institutions domestically and internationally, specifically in propelling scientific and technological advancements that fortify sustainable environmental management. May the empiricism, discourse, and scholarly output generated over the ensuing two days yield tangible contributions to the broader academic corpus and to the socio-economic welfare of our global community.

Therefore, by the grace of God Almighty, and with the invocation of
Bismillahirrahmanirrahim,

I hereby declare the 6th International Seminar of Science and Technology (ISST) 2026 and the Annual Meeting of Semirata BKS PTN Barat officially open.

May this conference proceed with great success and impart enduring intellectual benefits to us all. I wish all participants a productive and inspiring seminar. Thank you very much.

Wassalamu'alaikum warahmatullahi wabarakatuh.
Om Shanti Shanti Shanti Om, Namó Buddhaya.

Tangerang Selatan, October 12th, 2026

Rector of Universitas Terbuka Prof. Dr. Ali Muktiyanto, S.E., M.Si.

Our Event Details

SEMINAR RUNDOWN

The 6th ISST 2026 UNIVERSITAS TERBUKA

"Advancing Science and Technology for Sustainable Environment and Resource Management"

Monday - Tuesday, 12th – 13th October 2026

07.00 am to 09.05 pm (GMT+7)

On-Site UTCC UT and Online Zoom

No	Details	Time
		(UTC+7; WIB)
1	Registration for Online Presenters and Participants: Zoom : https://sl.ut.ac.id/ISST-Semirata2026 Youtube : https://sl.ut.ac.id/ISST-Semirata2026-UTTV Registration for On-Site Presenters and Participants: Universitas Terbuka Convention Centre (UTCC) Jl. Cabe Raya, Kecamatan Pamulang, Tangerang Selatan, Indonesia (https://sl.ut.ac.id/UTCC-maps)	07.00 – 08.30
Opening Ceremony		
2	MC opens the event Indonesia Anthem	08.30 – 08.45
3	Opening prayer	08.45 – 08.50
4	Traditional Art Dance Performance	08.50 – 09.00
Welcome Speech		
5	Report by Conference Chair Dr. Sitta Alief Farihati, S.Si., M.Si	09.00 – 09.05
6	Welcome Speech by Dean of the Faculty of Science and Technology, Universitas Terbuka Dr. Subekti Nurmawati, M.Si.	09.05 – 09.10
7	Welcome Speech by West BKS Leader Dr. Eng., Heri Satria, S.Si., M.Si	09.10 – 09.15
8	Welcome Speech by Rector of Universitas Terbuka Prof. Dr. Ali Muktiyanto, S.E., M.Si.	09.15 – 09.22
9	Opening Ceremony	09.22 – 09.30
10	Faculty of Science and Technology's Launching Sustainable Ideas Video: "Advancing Science and Technology for Sustainable Environment and Resource Management"	09.30 – 09.35
Keynote Speech		
11	Keynote Speaker: Prof. Stella Christie, A.B., Ph.D., Deputy Minister of Higher Education, Science and Technology Indonesia	09.35 – 10.05

No	Details	Time
		(UTC+7; WIB)
Press Conference		
Plenary Session 1		
12	Plenary Speaker-1: Dr. Bruce Alberts University of California, San Francisco (US)	10.05 – 10.30
13	Plenary Speaker-2: Dr. Somporn Chuai-Aree Prince of Songkla University, Thailand	10.30 – 10.50
14	Plenary Discussion Session 1	10.50 – 11.10
Plenary Session 2		
15	Plenary Speaker-3: Professor Edward Aspinall Australian National University, Australia	11.10 – 11.30
16	Plenary Speaker-4: Professor (Distinguished Professor) Dr. Eng.Muhammad Aziz Tohoku University, Japan	11.30 – 11.50
17	Plenary Discussion Session 2	11.50 – 12.10
18	Closing of Plenary Session	12.10 – 12.15
BREAK		12.15 – 13.30
19	Annual Meeting of Semirata Plenary meeting held by the leadership of BKS PTN-BARAT	13.30 – 15.30
20	Parallel Session of ISST Participants of this session will present their submitted research paper. Each presenter will deliver his/her talk for 15 minutes.	13.30 – 15.30
21	Closing ceremony Announcement of the Best Paper of 6th ISST 2026	15.30 – 16.30
BREAK		
22	Gala Dinner	18.30 – 21.05

Day 2**Knowledge Sharing & Organizational Meetings**

23	Guest Registration and Welcome Reception	08.30 – 08.45
24	Knowledge Sharing I & II	09.00 - 11.00
25	Closing SEMIRATA Semirata 2027 Host Announcement	11.00 - 11.30
26	ISHOMA	11.30 - 12.30
27	City Tour	12.30 – 21.00

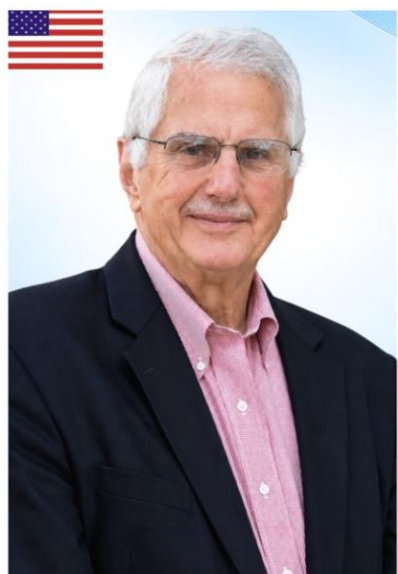
KEYNOTE SPEAKER

**Prof. Stella Christie, A.B., Ph.D****Deputy Minister of Ministry of Higher Education,
Science, and Technology, Republic of Indonesia.**

Prof. Stella Christie, A.B., Ph.D., is an Indonesian-born cognitive scientist and professor at Tsinghua University in Beijing, China. She is a professor in the Department of Psychological and Cognitive Sciences and a member of the Tsinghua Laboratory of Brain and Intelligence, where her research focuses on cognitive science and child development. Tsinghua University identifies her main research area as the formation and development of analogical reasoning.

She has received several prestigious national and international academic awards, scholarships, and research recognitions throughout her career. Among her notable achievements are the Harvard University Psychology Thesis Prize and the Jerome Kagan Undergraduate Research Award for Outstanding Thesis in 2004. She also received the Journal of Cognition and Development Editors' Choice Award for Best Article in 2010, recognizing her research as the most influential paper of the year. In addition, she was nominated for the James S. McDonnell Understanding Human Cognition Award in 2016, one of the most prestigious recognitions in cognitive science; Tsinghua University notes that she was among only 20 scholars nominated worldwide that year. Her academic journey was also supported by prestigious scholarships, including the ASEAN Scholarship, United World College Scholarship, and Harvard-Yenching Fellowship.

PLENARY SPEAKERS



Dr. Bruce Alberts

University of California, San Francisco

Dr. Bruce Alberts is a distinguished American biochemist, molecular biologist, and science educator who has made major contributions to the understanding of DNA replication, protein biochemistry, and molecular biology. He is a Professor Emeritus at the University of California, San Francisco (UCSF) and holds the Chancellor's Leadership Chair in Biochemistry and Biophysics for Science and Education. He earned his B.S. in Biochemical Sciences from Harvard College in 1960 and his Ph.D. in Biophysics from Harvard University in 1965.

He served as President of the National Academy of Sciences (NAS) for two six-year terms, from 1993 to 2005, and played an important role in developing U.S. National Science Education Standards. He was also Editor-in-Chief of *Science* magazine from 2008/2009 to 2013 and served as one of the first U.S. Science Envoys from 2009–2011. He is one of the original authors of *Molecular Biology of the Cell*, one of the most influential textbooks in modern molecular and cell biology.

Dr. Bruce Alberts is notable not only for his scientific discoveries in molecular biology but also for his extraordinary contributions to science education, scientific policy, and international scientific leadership. His career at UCSF and his leadership of the National Academy of Sciences have made him an influential figure in both biomedical research and the advancement of science education.



Prof. Edward Aspinall

Australian National University

Prof. Edward Aspinall is an Australian political scientist and Professor of Politics and Social Change at The Australian National University (ANU). He is internationally recognized for his expertise in Indonesian and Southeast Asian politics, particularly democratization, elections, political parties, social movements, nationalism, political patronage, and clientelism. His research has extensively examined Indonesia's political transformation, democratic development, and the relationship between political elites, voters, and local communities. He is also the author of several influential books, including *Opposing Suharto*, *Islam and Nation*, and *Democracy for Sale: Elections, Clientelism, and the State in Indonesia*.

Prof. Aspinall has received several significant recognitions. He received the Mid-career Researcher Prize for Excellence in Asian Studies from the Asian Studies Association of Australia in 2010 for his work *Islam and Nation*. He was also awarded an Australian Research Council Future Fellowship in 2012 and received the ANU Vice-Chancellor's Award for Excellence in Supervision in 2019 and 2020. In addition, he has served as President of the Asian Studies Association of Australia and is a Fellow of the Australian Academy of the Humanities, reflecting his significant contribution to Asian political studies and the humanities.

His research continues to contribute to a deeper understanding of democracy, elections, political representation, and political networks in Indonesia and Southeast Asia. Through his scholarship, teaching, and research leadership at ANU, Prof. Aspinall has become an important international scholar in the study of contemporary Indonesian politics.



Prof. Muhammad Aziz
Tohoku University

Prof. Muhammad Aziz, Dr. Eng. is a distinguished Indonesian energy and mechanical engineering researcher who is currently a Professor (Distinguished Professor) at the Graduate School of Environmental Studies, Tohoku University, Japan, where he leads the Decarbonized Energy and Process Systems Engineering (DeEPS) Laboratory. He earned his Bachelor's, Master's, and Doctoral degrees in engineering from Kyushu University, Japan, and previously held academic positions at the Tokyo Institute of Technology and the University of Tokyo.

His expertise focuses on advanced energy systems, renewable energy, energy conversion, hydrogen production and storage, waste-to-energy, smart grids, batteries, electric vehicles, and industrial decarbonization. His current research also includes chemical looping technology for clean hydrogen production, hydrogen storage using advanced metamaterials, carbon utilization, and energy-system optimization. His research integrates engineering, environmental, and economic analyses to develop more efficient and sustainable energy systems.

Prof. Aziz has received several important research recognitions, including the Young Researcher Award from the Asian Pacific Confederation of Chemical Engineering Congress (2012), the UTokyo Young Excellent Researcher Award (2019), and an Ambassador Award (2023). He has also published hundreds of peer-reviewed scientific publications, books, book chapters, and conference proceedings, with a substantial international research impact. In 2026, he began his new role as a Distinguished Professor at Tohoku University, continuing his work on clean energy, hydrogen technology, and industrial decarbonization.



Dr. Somporn Chuai-Aree
Prince of Songkla University, Thailand

Prof. Dr. Somporn Chuai-Aree is an academic and researcher at Prince of Songkla University (PSU), Thailand. He is an Assistant Professor in the Department of Mathematics and Computer Science, Faculty of Science and Technology, and has been an academic staff member at PSU since 1997. He earned his Dr.rer.nat. in Applied Mathematics from Ruprecht-Karls-Universität Heidelberg, Germany, in 2009, following a master's degree in Computational Science from Chulalongkorn University. His academic expertise is primarily in Applied Mathematics, with research interests including mathematical modeling, simulation, environmental science, agricultural plant science, flood simulation, GIS-based research, and renewable energy.

One of Dr. Somporn Chuai-Aree's notable achievements is his contribution to research and academic development in applied mathematics and interdisciplinary science. His research has included mathematical modeling and simulation applied to natural phenomena, environmental problems, agriculture, water management, and disaster-related studies. His academic profile reports 14 Scopus-indexed publications, more than 105 citations, and an h-index of 5. He has also contributed to graduate education as one of the academic supervisors in Applied Mathematics and Research Methodology programs at PSU.

Dr. Somporn has taken on academic leadership and institutional responsibilities at Prince of Songkla University. He currently serves as Director of the Office of Academic Resources, reflecting his role in supporting academic resources and university services. PSU's official administration page also lists him in this leadership position. He has additionally been involved in academic publishing and educational development, with his expertise described in areas such as educational research and development, educational organization management, and leadership development in education.

OFFLINE PRESENTATION SCHEDULE

ROOM A

Subtheme : Advancing Applied Sciences for Sustainable Development and Environmental Challenges
 Moderator : Diki, S.Si., M.Ed., Ph.D.
 Room Manager : Ghazian Satya Ihsan., S.P., M.Si

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	1013	Sri Utami	Universitas Terbuka	The effectiveness of seed bio-priming using banana stem local microorganisms on chlorophyll content and root growth of land water spinach (ipomoea reptans) in mediterranean soil
2	13.45 - 14.00	1025	Onelia rochmah	Universitas Tanjungpura	A volume of fluid approach for simulating free-surface flow over different bed geometries free-surface flow over different bed geometries
3	14.00 - 14.15	1027	Pepi Novianti	Universitas Bengkulu	Application of the epidemic type aftershock sequence (etas) model with extreme values on earthquake data in bengkulu province sequence (etas) model with extreme values on earthquake data in bengkulu province
4	14.15 - 14.30	1030	Elsi Fitria	Universitas Riau	Sbn-derivations and their structural properties on sheffer stroke bn-algebras
5	14.30 - 14.45	1032	Leli Deswita	Universitas Riau	Blasius flow and heat transfer of an nepcm-based nanofluid through a porous medium with thermal radiation and convective heating
6	14.45 - 15.00	1033	Idhia Sriliana	Universitas Bengkulu	Hypothesis testing procedures for geographically weighted biresponse nonparametric regression using truncated spline
7	15.00 – 15.15	1042	Whika Febria Dewatisari	Universitas Terbuka	Role of dracaena trifasciata in air pollutant removal: a nature-based approach to sustainable environmental management

ROOM B

Subtheme : Advancing Applied Sciences for Sustainable Development and Environmental Challenges
 Moderator : Made Diyah Putri Martinasari, S.Pd., M.Sc.
 Room Manager : Hasan Basri, S.Kom., M.Kom.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	1046	Wulan Kumala Sari	Universitas Andalas	Diversity and ecological composition of epiphytic ferns (pteridophyta) associated with smallholder oil palm (elaeis guineensis jacq.) trunks in dharmastraya, indonesia
2	13.45 - 14.00	1049	Elizabeth Novi Kusumaningrum	Universitas Terbuka	Exploring terrestrial arthropod and insect species diversity along an elevational gradient on mount kelud, kediri, east java
3	14.00 - 14.15	1001	Jusmaldi	Mulawarman University	Biometric parameters and gonadal maturity stages of selar crumenophthalmus (bloch, 1793) from coastal waters off bontang, east kalimantan, indonesia
4	14.15 - 14.30	1003	Made Diyah Putri Martinasari	Universitas Terbuka	Evaluating the impact of whittaker-henderson smoothing parameters on three adapted nolfi mortality models
5	14.30 - 14.45	1004	Fadhio Rafliansyah	Universitas Terbuka	On the existence of continuous utility functions in hausdorff net spaces
6	14.45 - 15.00	1012	Rahmawati Munir	Universitas Mulawarman	Investigation of langmuir–hinshelwood kinetics in eggshell-derived $\text{CaCO}_3/\text{TiO}_2$ composite for photocatalytic degradation of methylene blue

ROOM C

Subtheme : Intelligent Technologies for Environmental Monitoring and Sustainable Systems

Moderator : Dr. Andri Suryadi, S.Kom., M.Kom.

Room Manager : Denisha Trihapningsari, S.Kom., MMSI.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2001	Selly Anastassia Amellia Kharis	Universitas Terbuka	Does nonlinearity improve exchange rate forecasting? evidence from a varma–random forest hybrid model for the indonesian rupiah
2	13.45 - 14.00	2011	Septri Damayanti	Universitas Bengkulu	Integrating outlier detection into the singh fuzzy time series method for forecasting nonlinear data: a case study of complete basic immunization coverage in bengkulu province
3	14.00 - 14.15	2013	Thoriq Muhammad Pasya	IPB University	Implementing weighted normalized scoring algorithm for web-based mental health screening
4	14.15 - 14.30	2015	Richki Hardi	Universitas Balikpapan	Evaluating perceived academic information service quality in a rag-enabled framework: a pls-sem study
5	14.30 - 14.45	2019	Fatayat	Universitas Riau	Analysis of the capability level of information technology risk governance in the m-paspor application using cobit 5
6	14.45 - 15.00	2021	Resya Selly Evangelista	Universitas Andalas	Development of a group decision-making model and algorithm using the intuitionistic fuzzy n-bipolar soft expert set for complex decision-making

ROOM D

Subtheme : Intelligent Technologies for Environmental Monitoring and Sustainable System

Moderator : Dr. Ir. Tuty Maria Wardiny, M.Si.

Room Manager : Siti Umamah Naili Muna, M.Si.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2023	Tisha Melia	Universitas Riau	A robustness benchmark of easyocr for indonesian identity documents under controlled image acquisition conditions
2	13.45 - 14.00	2024	Ulfasari Rafflesia	Universitas Bengkulu	Modified mean algorithm using a robust mean estimator for spatial outlier detection in earthquake data of the sumatra region
3	14.00 - 14.15	2031	Siska Yosmar	Universitas Bengkulu	Developing a copula regression framework for earthquake frequency forecasting in the sumatra megathrust zone: a comparative analysis with arima and lstm
4	14.15 - 14.30	2032	Dr. Fachri Faisal, S.Si., M.Si.	Universitas Bengkulu	When does effective-sample-size tempering work in local bayesian regression? a kernel, design, and error-robustness study
5	14.30 – 14.45	2033	Tri Wijayanti Septiarini	Universitas Terbuka	Benchmarking neuro-fuzzy against traditional machine learning for student risk prediction in open and distance learning

ROOM E

Subtheme : Sustainable Agriculture for Innovation in the Food Industry Development

Moderator : Ir. Endang Indrawati, M.A.

Room Manager : Mochamad Bagoes Satria Juniarto, S.Kom., M.Kom.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	3005	Kustiati	Universitas Tanjungpura	parasitoid diversity of armyworm spodoptera frugiperda j.e. smith (lepidoptera: noctuidae) on the corn plant in kalimantan barat
2	13.45 - 14.00	3006	Rina Astarika	Universitas Terbuka	from charity to sustainable agribusiness : a culturally adaptive empowerment model for the orang rimba indigenous community
3	14.00 - 14.15	3008	Etis Sunandi	Universitas Bengkulu	enhancing local-level food security index prediction using semiparametric random forest small area estimation: evidence from bengkulu city
4	14.15 - 14.30	3011	Mimi Sutrawati	University of Bengkulu	molecular detection of viruses associated with yellow mosaic disease in citrus (citrus sp.) in kepahiang regency, bengkulu
5	14.30 – 14.45	3012	Idha Farida	Universitas Terbuka	the role of the agricultural extension center as an agricultural development strategic command model in national development
6	14.45 – 15.00	3015	Azzahra Nureyna Cintani	Universitas Prasetya Mulya	quality characterization and cultivation practices of ultra-early-maturing rice variety m70d in lamongan regency
7	15.00 – 15.15	3016	Einstivina Nuryandani	Universitas Terbuka	dayak onion (eleutherine americana), characteristics, health applications and functional food development
8	15.15 – 15.30	3019	Endang Indrawati	Universitas Terbuka	hematological responses of broiler chickens to dietary supplementation with gedi leaf meal (abelmoschus manihot l.)
9	15.30 – 15.45	3003	Nani Radiastuti	Universitas Islam Negeri Syarif Hidayatullah Jakarta	the activity of papaya seeds (carica papaya) 'bangkok' and 'california' varieties in inhibiting the growth of pathogenic bacteria

ROOM F

Subtheme : Sustainable Regional Planning and Environmental Management for Resilient Communities

Moderator : Ulul Hidayah, S.T., M.Si.

Room Manager : Muhammad Farras Rahman, M.P.W.K

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	4004	Sudarmo	Universitas Mulia	Strengthening human resources through green skills for a sustainable environmental economy in balikpapan indonesia
2	13.45 - 14.00	4006	Saumi Syahreza	Universitas Syiah Kuala	Spatio-temporal dynamics of land surface temperature and microclimate variability in the gayo highlands coffee agroecosystem, indonesia
3	14.00 - 14.15	4013	Lilian Sarah Hiariey	Universitas Terbuka	Tourist perceptions of environmental management priorities for sustainable beach tourism in ambon city
4	14.15 - 14.30	4014	Fahma Wijayanti	Universitas Islam Negeri Syarif Hidayatullah Jakarta	Feeding niches of iridescent shark catfish (pangasianodon hypophthalmus) and suckermouth armored catfish (pterygoplichthys pardalis) in situ gintung, south tangerang

ONLINE PRESENTATION SCHEDULE

BREAKOUT ROOM 1 (Zoom Apps)

Subtheme : Advancing Applied Sciences for Sustainable Development and Environmental Challenges
 Moderator : Na'ilah Insani Alifiyah, M.Si.
 Room Manager : Irmawati, S.E.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	1005	Firdaus, S.Si., M.Stat.	The University of Bengkulu	Bayesian machine learning approach for small area estimation to predict socio-economic indicators in bengkulu province
2	13.45 - 14.00	1006	Afifah Fauziyyah	Universitas Bengkulu	Translational clinical pharmacy approach in sustainable diabetic wound management using injectable cocoa pod husk pectin hydrogel with silver nanoparticles
3	14.00 - 14.15	1008	Yusfiati	University of Riau	Utilization of a combination of fermented cassava peel and papaya leaf flour (carica papaya l.) as an alternative feed ingredient for native chickens
4	14.15 - 14.30	1009	Elfi Yuliza	Universitas Bengkulu	Experimental study of temperature effect on solar panels performance in a coastal area
5	14.30 - 14.45	1010	Devina Rayzy Perwitasari Sutaji Putri	Universitas Mulawarman	Synthesis and characterization of hydroxyapatite derived from blood cockle (anadara granosa) shell waste as a bone phantom material candidate
6	14.45 - 15.00	1014	Evi Yulianti	National Research and Innovation Agency (BRIN)	Development of carboxymethyl cellulose (cmc)-based solid polymer electrolytes incorporating lithium triflate and fly ash-derived silica filler for lithium battery applications
7	15.00 - 15.15	1016	Yani' Qoriati	Universitas Nahdlatul Ulama Sunan Giri	Toxicity test of zn-catharantus roseus nanoparticles as a basis for developing eco-friendly anticancer materials
8	15.15 - 15.30	1017	Firdausa Al Barokah	Universitas Negeri Malang	Parametric study of crack propagation in compact tension specimens with angled holes using fem

BREAKOUT ROOM 2 (Zoom Apps)

Subtheme : Advancing Applied Sciences for Sustainable Development and Environmental Challenges
 Moderator : Rina Rismaya, M.Si.
 Room Manager : Alma Tiara Cantika, A.m.d.Kom.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	1018	Gesang Tarbiatul Ihsan	Univeresitas Negeri Malang	Method and material layer thickness ratio (t_1/t_2) on impact energy of aa6061 dilemma vs monolithic laminates: experimental validation fem
2	13.45 - 14.00	1019	Aisah Dwi Nur Aviva	Malang State University	Influence of controlled mild pre-oxidation in air atmosphere on the impact energy absorption and mechanical behavior of aisi 1018 low-carbon steel
3	14.00 - 14.15	1020	Nur Aziz Iqbaludiin	Universitas Negeri Malang	The effect of low-temperature aging time variation at -20oc with aa6061 impact energy testing
4	14.15 - 14.30	1021	Ramzy Achmad Syach Ulbay	Universitas Negeri Malang	Comparative analysis of v-notch and u-notch on the impact strength of st 41 low-carbon steel
5	14.30 - 14.45	1022	Meysa Angelica Langitan	Universitas Negeri Malang	Analysis of the effect of notch root radius (r) on charpy energy aisi 1018 steel passes impact strength test
6	14.45 - 15.00	1023	Titik Lestariningsih	National Research and Innovation Agency (BRIN)	Optimizing libob content in pvdf-co-hfp/peo/litfsi solid polymer electrolytes for balanced Li^+ transport and electrochemical stability
7	15.00 – 15.15	1024	Lola Febryandini Hasibuan	Andalas University	Sensitivity analysis and uncertainty propagation of fuel assembly manufacturing tolerances in the nuscale reactor using lates nuclear data libraries
8	15.15 - 15.30	1026	Dwita Oktiarni	Universitas Bengkulu	Cellulolytic bacteria from macrotermes malaccensis(haviland) termite gut isolated from university of bengkulu, indonesia

BREAKOUT ROOM 27 (Zoom)

Subtheme : Advancing Applied Sciences for Sustainable Development and Environmental Challenges
 Moderator : Muhammad Rifqi, S.T., M.T.P
 Room Manager : Alma Tiara Cantika, A.m.d.Kom.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	1028	Morina Adfa	Universitas Bengkulu	Effect of extraction solvent polarity on antioxidant activity and metabolite profile of azadirachta excelsa leaves via lc-ms/ms
2	13.45 - 14.00	1029	Eduwin Saputra	Universitas Bengkulu	Simple and sensitive creatinine detection based on gold nanoparticles and digital image colorimetry
3	14.00 - 14.15	1031	Yolanda Norasia	UIN Walisongo	Mathematical modelling of hybrid nanofluid flow through heat pipes for sustainable thermal management
4	14.15 - 14.30	1036	Putri Ayu Sekar Tanjung	Universitas Negeri Malang	Effect of asymmetric structural design of ship fuel tank support brackets on fatigue life performance
5	14.30 - 14.45	1037	Endah Septa Sintiya	Politeknik Negeri Malang	Efficient rfm-based customer segmentation using hybrid machine learning for food-sector msme
6	14.45 - 15.00	1038	Glen Laura Situmorang	Universitas Jambi	Synthesis and characterization of activated carbon from palm oil fuel ash (pofa) with variations of h 3 po 4 activation as a surfactant adsorbent in household laundry wastewater
7	15.00 – 15.15	1040	Salsabila Josata	Universitas Lampung	Application of tinospora crispa stem extract nanoparticles and fermented mature coconut water for the control of mealybugs in cocoa
8	15.15 - 15.30	1041	Ajeng Elvida Riani	Universitas Lampung	Study of the physicochemical properties and stability of carrageenan-based biodegradable films incorporated with carbon quantum dots derived from cocoa pod husk

BREAKOUT ROOM 4 (Zoom Apps)

Subtheme : Advancing Applied Sciences for Sustainable Development and Environmental Challenges

Moderator : Ika Nur Laily Fitriana, M.Stat.

Room Manager : Emeylia Safitri, S.Stat., M.Si.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	1043	Noor Hindryawati	Universitas Mulawarman	Green synthesis of silver nanoparticles using phyllanthus acidus leaf extract and their sunscreen potential
2	13.45 - 14.00	1044	Mulia Astuti	Universitas Bengkulu	Spectral characterization of the zero-divisor graph of
3	14.00 - 14.15	1045	Atin Saraswati	IPB University	Implementation of high value vegetable eco packaging: case study at pt xyz
4	14.15 - 14.30	1047	Luthfi Nurwandi	Universitas Islam Bandung	Multi-supplier delivery delay determination for sustainable supply chains
5	14.30 - 14.45	1048	Shofie Chandra Ningtyas	Universitas Jambi	Application of h 3 po 4 activated palm oil fuel ash (pofa) for surfactant adsorption from household laundry wastewater at various adsorbent masses
6	14.45 - 15.00	1050	Firdaus	Universitas Bengkulu	Bayesian machine learning approach for small area estimation to predict socio-economic indicators in bengkulu province
7	15.00 – 15.15	1051	Muhammad Yogi Riyantama Isjoni	Universitas Riau	Community participation in sustainable environmental governance in pekanbaru city
8	15.15 - 15.30	1015	Sofia Anita	University of Riau	Development and physicochemical optimization of naoh-activated durio zibethinus murr. peel-derived carbon for enhanced adsorptive removal of cr(iii), and rhodamine b from textile waste

BREAKOUT ROOM 5 (Zoom Apps)

Subtheme : Intelligent Technologies for Environmental Monitoring and Sustainable Systems

Moderator : Fitria Amastini, S.Kom. M.T.I.

Room Manager : Adam Satrio Kanza

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2002	Laksmi Rahsajati Pratiwi	Universitas Terbuka	Integrative bioinformatics analysis identifies potential biomarkers for advanced lung cancer using gse10072 dataset and tcga validation
2	13.45 - 14.00	2003	Lailyn Puad	Universitas Islam Negeri (UIN) Sulthan Thaha Saifuddin Jambi	Unsupervised machine learning and robust time-series decomposition for smart healthcare revenue assurance: a standardized framework for outpatient clinics
3	14.00 - 14.15	2004	Tomi Tristono	Universitas Merdeka Madiun	Building two-phase traffic light petri net model states using an incident matrix
4	14.15 - 14.30	2006	Chepy Perdana	Politeknik Negeri Subang	Development of simpresta: a web-based student achievement monitoring information system with a topsis-based smart academic advisor for academic decision support
5	14.30 - 14.45	2007	Sayyidah Hajar Faiqotul Muhimmah	Universitas Anwar Medika	Web-based posyandu information system for child growth monitoring and family health information access
6	14.45 - 15.00	2008	Wisnu Aji Pamungkas	Universitas Terbuka	Explainable machine learning for identifying the pollutant sub-indices that drive jakarta's air pollutant standard index categories
7	15.00 – 15.15	2009	Rika desrina saragih	Universitas Bengkulu	Influence of bathymetry on terrain correction in gravity data processing: a case study of central west sumatra, indonesia

BREAKOUT ROOM 6 (Zoom Apps)

Subtheme : Intelligent Technologies for Environmental Monitoring and Sustainable Systems

Moderator : Nurul Nisa'a Amin, S.P., M.Sc.

Room Manager : Adam Satrio Kanza

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2010	Risna Zubaidah	Universiti Sains Malaysia (USM)	AI-assisted studio pedagogy with local material datasets for early spatial literacy
2	13.45 - 14.00	2012	Riwi Dyah Pangesti	Universitas Islam Negeri Raden Intan Lampung	Application of IoT-Based Smart Technology for Soil Monitoring to Support Sustainable Agriculture
3	14.00 - 14.15	2014	Amber Asghar	BRIN	Quality Changes of Lumbu Kuning and Lumbu Hijau Garlic across Different Size Grades During Storage
4	14.15 - 14.30	2016	Yusna Fadliyyah Apriyanti	Polytechnic Institute of Nuclear Technology Indonesia	Design And Construction Of Non-Contact Transformer Temperature Monitoring Based On Lora
5	14.30 - 14.45	2020	Agus Sutrisno	Politeknik Negeri Jakarta	Smart Food Packaging Films Based on Dragon Fruit Peel Extract for Chicken Meat freshness Monitoring
6	14.45 - 15.00	2022	Wina Ayu Lestari	Institut Teknologi Bandung	Assessing Post-Disaster Recovery using Big Data (Case Study: Cianjur Earthquake)
7	15.00 – 15.15	2025	Zulfia Memi Mayasari	Gadjah Mada University	Study on The Technology of RF-Driven Multicusp Ion Source as Main Part of 30 MeV Cyclotron

BREAKOUT ROOM 7 (Zoom Apps)

Subtheme : Intelligent Technologies for Environmental Monitoring and Sustainable Systems

Moderator : Nuramaliyah, M.Si.

Room Manager : Fonda Leviany, S.Stat., M.Stat.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2029	Ariska Kurnia Rachmawati	UIN Walisongo Semarang	Support vector regression approach for revenue forecasting in sustainable public transportation : the case of brt trans semarang
2	13.45 - 14.00	2030	Haikal Fairuzi Maulana	Universitas Muhammadiyah Aceh	Testing Fragmentation in Fiscal-Spatial-AI Research: A Retrieval-Aware Bibliometric Analysis of Tourism Revenue Governance
3	14.00 - 14.15	2036	Audia Rahmayana	Universitas Darunnajah	Data-driven academic resource management in higher education using k-means student clustering
4	14.15 - 14.30	2037	lik Muhamad Malik Matin	Politeknik Negeri Jakarta	Analysis of akira ransomware using reverse engineering, static analysis, and dynamic analysis methods
5	14.30 - 14.45	2038	Andika Rafi Ryansyah	Universitas Negeri Malang	Investigation the effect of ship electric motor foundation welding on residual stress and distortion using the finite element method
6	14.45 - 15.00	2039	Denny Haryadhi Nurdhiansyah	Universitas Terbuka	Metode denny: a core methodology for adaptive human-centered system design
7	15.00 – 15.15	2005	Sefri Imanuel Fallo	San Pedro University	An explainable probabilistic machine learning framework for early detection of earthquake-induced flood susceptibility using geospatial data

BREAKOUT ROOM 8 (Zoom Apps)

Subtheme : Sustainable Agriculture for Innovation in the Food Industry Development

Moderator : Bayu Eka Wicaksana, M.P.

Room Manager : Yulia Dwi Maharani S.M.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	3001	Musyirna Rahmah Nasution	Sekolah Tinggi Ilmu Farmasi Riau	Characterization of aflatoxin b1 transformation products generated by the cell-free supernatant of lactic acid bacteria isolate s28 using lc-hrms and bsIt toxicity assessment
2	13.45 - 14.00	3002	Fredy Mukti	Universitas Terbuka	Probabilistic valuation of indonesian palm oil equities using dcf and monte carlo simulation:a comparative study of aali, lsip, and ssms
3	14.00 - 14.15	3004	Narti Fitriana	State Islamic University of Syarif Hidayatullah Jakarta	Diversity of pollen source plants of tetragonula laeviceps (apidae: meliponini) as a basis for sustainable melliponiculture
4	14.15 - 14.30	3007	Yusianti Silviani	Universitas Sebelas Maret	Probiotic potential of indonesian fermented mustard greens and cassava as natural cholesterol-lowering agents
5	14.30 - 14.45	3009	Dwi Iriyani	Universitas Terbuka	Sensory acceptability and proximate composition of selected gluten-free dry noodle formulations from mocaf, rice, corn, and cowpea (vigna unguiculata) flour blends
6	14.45 - 15.00	3010	Evan Vria Andesmora	University of Bengkulu	Differential physiological responses reveal waterlogging tolerance among jambi oil palm accessions

BREAKOUT ROOM 9 (Zoom Apps)

Subtheme : Sustainable Agriculture for Innovation in the Food Industry Development

Moderator : Rizky Lutfi Suprabowo, S.E., M.Si.

Room Manager : Yulia Dwi Maharani S.M.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	3013	Moh fatkhur rozi	Yudharta University Pasuruan	Docking-Guided Double-Wall Nanoencapsulation Enhances β -Galactosidase Thermal Stability under UHT Conditions
2	13.45 - 14.00	3014	Bagas Qamara Putra	Universitas Lampung	Physicochemical properties of biodegradable wash-off mask containing rice, kencur (<i>Kaempferia galanga</i>) and collagen nanoparticles from milkfish (<i>Chanos chanos</i>) scales
3	14.00 - 14.15	3017	Shahrul Aditya	Mahasiswa Pascasarjana Universitas Muhammadiyah Makasar	Analysis of Indonesian Coffee International Trade (2021–2025)
4	14.15 - 14.30	3018	Yeni Rachmawati	Universitas Sumatera Utara	Institutional Innovation as a Strategy to Overcome Value Disparities in Rice Value Chain Toward a Sustainable Food Industry
5	14.30 - 14.45	3020	Khuril Wildan	Universitas Yudharta Pasuruan	Betanin–Curcumin Interactions with β -Lactoglobulin and Betalain Nanoemulsion Fortification in Temulawak Yoghurt Ice Cream

BREAKOUT ROOM 10 (Zoom Apps)

Subtheme : Sustainable Regional Planning and Environmental Management for Resilient Communities
 Moderator : Yosi Rima Riana, S.P.W.K., M.P.W.K
 Room Manager : Irmawati, S.E.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	4003	Siti Fatonah	Universitas Riau	Economic–ecological trade-offs of peatland conversion in kepulauan meranti, riau, indonesia
2	13.45 - 14.00	4005	Dilla frisa yuni amanda	Universitas Terbuka	Spatial analysis of land use conversion conformity with the detailed spatial plan: a case study of the kuala kurun urban area, gunung mas regency, indonesia (2019–2026)
3	14.00 - 14.15	4007	Siti Hairunnisa Norfahmi	Universitas Bengkulu	Analyzing the development of tropical cyclone seed disturbances: from statistical overview to ocean heat influences
4	14.15 - 14.30	4008	Haikal Fairuzi Maulana	University of Muhammadiyah Aceh	Artificial intelligence in disaster risk reduction toward the sustainable development goals: a comparative bibliometric analysis of global and indonesia-affiliated research
5	14.30 - 14.45	4009	Marlizar	Universitas Muhammadiyah Aceh	Artificial intelligence and smart tourism research toward the sustainable development goals: a comparative bibliometric analysis of global and indonesia-affiliated studies
6	14.45 - 15.00	4010	Anindya Tyas Wandaweka	Universitas Terbuka	Cluster analysis for regional prioritization of indonesia's free nutritious meal (mbg) program based on nutrition and welfare indicators

BREAKOU ROOM 11 (Zoom Apps)

Subtheme : Sustainable Regional Planning and Environmental Management for Resilient Communities
 Moderator : Khoirina Fajriani, S.T., M.P.W.K.
 Room Manager : Lintang Rahmayana, S.T., M.P.W.K.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	4011	Jarulis	Universitas Bengkulu	Complete mitochondrial genome of octopus spp. (cephalopoda:octopodidae) from bengkulu province, indonesia
2	13.45 - 14.00	4012	Riyan Mahendra Saputra	Badan Riset dan Inovasi Nasional	A typology-based assessment framework for regional digital readiness: evidence from indonesia
3	14.00 - 14.15	4015	Sakira Kusuma Ayu Maharani	Universitas Terbuka	Sectoral economic vulnerability analysis of blitar city using the pca-svd method
4	14.15 - 14.30	4016	Desi Tirtawati	Universitas Pertahanan	Integrating food defense into health defense: a systematic literature review
5	14.30 - 14.45	4017	Turmudi	BRIN	Hydrological buffering capacity of tropical coastal peatlands and its role in drought resilience: an integrated spatial assessment of kepulauan meranti regency, indonesia
6	14.45 - 15.00	4001	Wahyu Hidayat	Ministry of Agrarian and Spatial Planning/National Land Agency	Can 3d land valuation reduce hidden land value tax loss? integrating urban density and urban vibrancy for sustainable assessment in a heritage tourism district
7	15.00 – 15.15	4002	Rahayu Rahmayanti	Universitas Tarumanagara	Assessing the improvement of bias-correcting satellite-based rainfall estimates in comparison to point-based rainfall observation

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Profil PT Agrinas Jaladri Nusantara (Persero)

PT Agrinas Jaladri Nusantara (Persero) merupakan Badan Usaha Milik Negara (BUMN) yang berfokus pada pengembangan ekosistem perikanan nasional yang terintegrasi, produktif, dan berkelanjutan. Perusahaan ini merupakan hasil transformasi strategis dari PT Virama Karya (Persero) pada tahun 2025, dengan menggabungkan pengalaman lebih dari enam dekade di bidang konsultasi konstruksi dan pembangunan nasional dengan mandat strategis untuk memperkuat sektor perikanan Indonesia.

Mengusung semangat "Sovereign Fishery for a Resilient Nation", Agrinas Jaladri berkomitmen mendukung ketahanan dan kemandirian pangan nasional melalui penguatan sektor perikanan dari hulu hingga hilir. Pengembangan bisnis perusahaan bertumpu pada empat pilar utama, yaitu perikanan tangkap (wild catch), perikanan budidaya (aquaculture), pengolahan hasil perikanan bernilai tambah (value-added processing), serta pengembangan pusat ekosistem dan rantai dingin (ecosystem hub & cold chain). Keempat pilar tersebut dirancang untuk meningkatkan produktivitas, memperkuat rantai pasok, mendorong hilirisasi, dan memperluas akses pasar domestik maupun internasional.

Dalam menjalankan mandatnya, Agrinas Jaladri mengembangkan sejumlah inisiatif strategis, antara lain modernisasi 975 kapal perikanan pada periode 2026–2027, revitalisasi tambak seluas sekitar 20.413 hektare di wilayah Bekasi, Karawang, Indramayu, dan Subang, serta pengembangan sistem rantai dingin perikanan terintegrasi. Perusahaan juga berkontribusi dalam program Kampung Nelayan Merah Putih (KNMP) melalui dukungan konsultasi dan pengawasan pembangunan di 85 lokasi.

Selain mengembangkan sektor perikanan, Agrinas Jaladri tetap mempertahankan kapabilitas konsultasi konstruksi melalui Direktorat Konsultan Virama Karya, yang memiliki keahlian di bidang transportasi, sumber daya air, industri, energi, minyak dan gas, serta bangunan dan penataan ruang.

Melalui strategi pembangunan bisnis perikanan yang mandiri, integrasi rantai nilai hulu–hilir, dan percepatan pengembangan ekosistem perikanan nasional, PT Agrinas Jaladri Nusantara (Persero) berupaya menjadi penggerak transformasi sektor perikanan Indonesia, sekaligus menciptakan nilai ekonomi berkelanjutan bagi masyarakat pesisir dan perekonomian nasional.



Profil PT Dwimitra Mandiri Sampurno

PT Dwimitra Mandiri Sampurno (DMS) merupakan perusahaan swasta nasional yang bergerak di bidang teknologi laboratorium, penyediaan peralatan ilmiah, layanan pengujian, serta konsultasi lingkungan. Perusahaan ini hadir sebagai penyedia solusi laboratorium terintegrasi untuk mendukung kegiatan penelitian dan pengembangan (research and development), pengendalian kualitas (quality control), serta peningkatan efisiensi operasional di berbagai sektor industri. DMS memiliki jaringan operasional yang mencakup Jakarta, Bogor, Tangerang, Medan, dan Makassar.

Dalam menjalankan kegiatan usahanya, DMS menyediakan beragam instrumen laboratorium, suku cadang, aksesoris, serta layanan teknis yang mencakup instalasi, kualifikasi dan kalibrasi, pemeliharaan, perbaikan, hingga pelatihan penggunaan peralatan. Perusahaan melayani berbagai sektor strategis, antara lain farmasi, kimia, makanan dan minuman, pakan ternak, lingkungan, minyak dan gas, serta institusi pendidikan dan penelitian.

Sebagai bagian dari pengembangan bisnisnya, DMS menjalin kemitraan dengan sejumlah produsen teknologi laboratorium internasional. Perusahaan merupakan distributor eksklusif BUCHI serta distributor yang ditunjuk untuk berbagai merek, seperti PerkinElmer, MANTECH, SOTAX, IKA, BIOBASE, dan Evoqua Water Technologies. Portofolio produknya meliputi berbagai instrumen analisis dan pengujian, seperti spektrofotometer, kromatografi, mass spectrometry, peralatan evaporasi, ekstraksi, serta instrumen analisis kimia dan material.

Selain penyediaan peralatan, DMS mengembangkan layanan pengujian laboratorium dan penelitian di Sentul, Bogor, yang mencakup pengujian *in vitro*, *in vivo*, penelitian praklinis, pelatihan, serta pengembangan inovasi ilmu pengetahuan dan teknologi. Layanan tersebut ditujukan untuk mendukung pengembangan produk, pengujian keamanan dan efektivitas, serta kebutuhan penelitian industri.

Di bidang lingkungan, DMS menyediakan layanan konsultasi dan pengujian yang meliputi penyusunan dokumen AMDAL, UKL-UPL, KLHS, pendampingan PROPER, pemantauan kualitas air dan udara, pengujian emisi, serta analisis tanah dan limbah. Melalui layanan tersebut, perusahaan membantu sektor industri memenuhi kebutuhan pengelolaan dan pemantauan lingkungan sesuai ketentuan yang berlaku.

Dengan mengintegrasikan teknologi laboratorium, layanan pengujian, konsultasi lingkungan, dan dukungan teknis purnajual, PT Dwimitra Mandiri Sampurno berkomitmen menjadi mitra strategis bagi industri dan institusi penelitian dalam meningkatkan kualitas, akurasi, efisiensi, serta keberlanjutan kegiatan operasional dan pengembangan teknologi di Indonesia.





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