

2nd AIC 2021

PROGRAM BOOK

The 2nd APTIK International Conference on Poverty and Environment (2AIC)
“A Sustainable Recovery for People and the Environment”

Virtual Conference (ONLINE)

Manado - Indonesia
November 19-20, 2021

Organized by:



Sponsored by:



REMARKS BY HEAD OF APTIK

Honorable speakers,

Dear participants

On behalf of APTIK chairperson, allow me to warmly welcome you all to The Second International Conference of Association of Indonesian Catholic Higher Education (APTIK). The theme of the conference: *“A Sustainable Recovery for People and the Environment”* shows a deep concern of APTIK on sustainable development. I believe that we – members of the big family of higher education – have to fully participate in developing a better life for all. However, we also need to protect our world from environmental destruction at the same time. In line with *‘Laudato Si’* main messages, APTIK members commit to work and act together in building ecological conscience and culture of environment protection among all students and lecturers.

This conference gathers a significant amount of academics from APTIK members and also from other Higher Education Institutions in Indonesia and some other parts of the world. Through inputs of keynote and invited speakers, presentation of selected papers and discussions among participants, we can certainly expect that this academics’ gathering is able to formulate excellent ideas for sustainable recovery for people and environment.

We are delighted and honored to have among us six distinguished speakers who will share their excellent thoughts and experiences to the participants of this conference. On behalf of APTIK family, I thank the two keynote speakers and the four invited speakers for their valuable time and thoughts to share with us.

I wish you a successful and fruitful conference. God bless you all.

Fr. Yulius Yasinto, SVD

APTIK Vice Chairperson

REMARKS BY RECTOR OF UNIVERSITAS KATOLIK DE LA SALLE MANADO

The 2nd APTIK International Conference 2021 has chosen the theme *A Sustainable Recovery for People and the Environment*. This theme presupposes that the condition of the earth and human life are urgent and important to be restored in a sustainable manner. On one hand, this conference is situated based on the perspective of the UN Sustainable Development Goals. On the other hand, however, this conference affirms the commitment of APTIK and its university members to realize the concept of integral ecology.

The concept of integral ecology is conveyed by Pope Francis in his encyclical *Laudato Si'* (2015). The earth as our home is sick and endangered, and we are called to preserve and recover its condition. Ecology can never be separated from humanitarian issues. The destruction of nature and the environment simultaneously signifies the occurrence of injustice, poverty, and suffering. Thus, ecological crisis is synonymous with the decline of the quality of human life and the imbalance of general welfare.

It is expected that this conference brings diverse research outcomes, but together they become scientific and academic contributions to sustainable recovery to actualize integral ecology.

I extend my gratitude to APTIK Administrators who entrusted the organization of this conference to Universitas Katolik De La Salle Manado. I sincerely thank the keynote speakers, the invited speakers, and all the researchers who present their research in this forum. I appreciate the presence and participation of the lecturers and students. Last but not least, I also would like to thank the organizing committee of this conference.

Prof. Dr. Johanis Ohoitumur

Rector of Universitas Katolik De La Salle Manado

**REMARKS BY CHAIRMAN OF THE ORGANIZING
COMMITTEE**

Peace and good health to all of us.

We convey our praise and gratitude to our Lord Jesus Christ who allows us to hold the Second APTIK International Conference on Poverty and Environment. This activity should actually have been carried out in 2020, along with the 20th anniversary of the De La Salle Catholic University, but due to the COVID-19 pandemic and with the approval of the APTIK leadership, we have postponed it until today.

The theme that we raise is in line with the present pandemic condition which has been devastating to all the living creatures on earth. The Second APTIK International Conference of 2021 is expected to address this hot issue for a better life in the future.

We invited two keynote speakers, namely the Head of APTIK and the Rector of Universitas Katolik De La Salle Manado to elaborate further on this theme.

We also have four invited speakers to discuss this topic according to their practice and experience in dealing with this issue in their respective countries which are US (James Krejci), Philippines (Bro. Armin Luistro), Taiwan (Prof. Martin Kao) and Indonesia especially in the East (Pater Dr. Philipus Tule, SVD).

The participants, both lectures and practitioners will examine the main theme and sub-theme more deeply based on their respective fields of expertise while also presenting some ideas for solutions that can be applied to the community life, government agencies and other sectors to eliminate the pandemic we are currently experiencing so that we can enjoy a more normal life as usual.

We would like to thank the APTIK leaders for providing the opportunity for Universitas Katolik De La Salle Foundation to be the organizer of this activity. Thank you to the Foundation and its apparatus. Thanks to the Rector of Universitas Katolik De La Salle Manado. Thanks to the keynote speakers and invited speakers, the participants who were willing to present their findings.

Thank you to the government of North Sulawesi Province, to the Governor and Deputy Governor. Thanks to Manado Mayor Andre Angow and Deputy Mayor dr. Richard Sualang and the Municipality apparatus. Thanks to the Village Head of Kairagi and Kombos as well as the local security personnel and the community around the campus.

Dr. Jozef R. Raco
Chairman of 2AIC

REMARKS BY CHAIRMAN OF THE PTU DE LA SALLE MANADO FOUNDATION

We give thanks to God for His arrangement, so that this second APTIK international conference can take place. The theme of this conference is a *Sustainable Recovery for People and the Environment*. This theme is very challenging for all of us, especially academics. Because all nations and countries in the world are currently struggling to get out from the chaos caused by the COVID-19 pandemic. Pope Francis in his New Year's welcome, February 8, 2021, before the ambassadors for the Holy See of the Vatican, said: *this world is seriously ill, not because of the Covid 19 Virus, but also in its natural environment, its economic and political processes, and even more so in its human relationships.*"

For this reason, this conference has become an open area to accommodate ideas and thoughts from academics, according to their respective expertise. We don't expect that the conference will make a contribution that can turn things around for the better, but even if it's small, it will still provide significant value.

I thank the APTIK Management, who has entrusted the organization of this conference to the Catholic University of De La Salle Manado.

Finally, I would like to thank the keynote speakers and invited speakers, all presenters, all writers, reviewers, who have shared their valuable experiences and all those who have contributed their best efforts and assistance in organizing this event.

Fr. Benansio Salombre
Chairman of the PTU De La Salle Manado Foundation

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Date	:	November 19-20, 2021
Organizer (Host)	:	1. Universitas Katolik De La Salle Manado 2. Association of Indonesian Catholic Higher Education (APTIK)
Venue	:	Manado - Indonesia (Virtual Conference - Online)
Platform	:	Zoom
Language	:	English
Secretariat	:	LPPM Universitas Katolik De La Salle Manado Kairagi Satu, Kecamatan Mapanget, Manado North Sulawesi, Indonesia
Conference Website	:	lppm.unikadelasalle.ac.id/2aic
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KEYNOTE SPEAKERS



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Rector of Sanata Dharma University Yogyakarta



Prof. Dr. Johanis Ohoitmur



Rector of Catholic University of De La Salle Manado

INVITED SPEAKERS



Dr. James Krejci
Lewis University, Illinois, USA (Chair -
Associate Professor - Business Administration)

Prof. Martin Kao, Ph.D.
Providence University, Taiwan
(Associate Professor - Tourism Dept.)



Br. Armin Luistro
Visitor of Lasallian East Asia District
– De La
Salle Manila-Philippines

Pater Dr. Philipus Tule
Rector of Catholic University of



Widya Mandira Kupang

COMMITTEE

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5. Frankie J. H. Taroreh, S.E., M.M.

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4. Dr. Ivonne A. Umboh, S.E., M.Si.
5. Dr. Liza Wikarsa, B.C.S., M.Comp.
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30. Inneke Victor, Ph.D. (Universitas Katolik De La Salle Manado)

The 2nd APTIK International Conference on Poverty and Environment (2AIC) 2021 aims to bring together leading academic scientists, researchers, research scholars, observers, and practitioners to exchange and share their knowledge, theoretical analysis, concepts and designs, opinions, and policies in relation to poverty alleviation, preservation of nature and Covid-19 pandemic and recovery strategies. Full scopes of the conference are as follows:

- ✦ Environment
- ✦ Green and Renewable Energy
- ✦ Social, Economics and Humanities
- ✦ Disaster Prevention and Mitigation
- ✦ Poverty
- ✦ Health and Education
- ✦ ICT
- ✦ COVID-19 Pandemic and Recovery Strategies

1st Day – November 19th, 2021

TIME (WITA)	TOPICS
07.30 – 08.30	Registration- Zoom Room Opened
08.30 – 08.40	Opening from MC
08.40 – 08.45	Opening Prayer
08.45 – 08.50	Indonesian National Anthem
08.50 – 09.00	Remarks
09.00 – 09.05	Picture Taking
09.05 – 09.45	Keynote Speaker: Prof. Dr. Johanis Ohoitumur
09.45 – 10.15	Invited Speaker: Prof. James Krejci
10.15 – 10.30	Q & A
10.30 – 10.45	Session Break
10.45 – 11.15	Invited Speaker: Br. Armin Luistro, FSC
11.15 – 11.30	Q & A
11.30 – 12.15	Keynote Speaker: Johannes Eka Priyatma, M.Sc., Ph.D.
12.15 – 13.15	Lunch Break
13.15 – 16.00	Parallel Session (Refer to Oral Presentation Schedule)
16.00 – 16.05	Closing 1 st Day
	Closing Prayer

2nd Day – November 20th, 2021

TIME (WITA)	TOPICS
08.00 – 09.00	Registration- Zoom Room Opened
09.00 – 09.10	Opening from MC
09.10 – 09.15	Opening Prayer
09.15 – 09.45	Invited Speaker: Prof. Martin Kao, Ph.D
09.45 – 10.00	Q & A
10.00 – 10.35	Invited Speaker: Dr. Philipus Tule
10.35 – 10.50	Q & A
10.50 – 11.50	Lunch Break
11.50 – 15.00	Parallel Session (Refer to Oral Presentation Schedule)
15.00 – 15.10	Closing Ceremony
15.10 – 15.15	Best Paper and Best Oral Presentation Announcement
15.15 – 15.20	Closing Remarks and Acknowledgement
15.20 – 15.25	Closing Prayer
	Picture Taking



1st Day – November 19th, 2021

ROOM 1. SOCIAL ECONOMICS AND HUMANITIES

(13.15 – 13.35) The Impact of Good Corporate Governance (GCG) Implementation and Internal Control on State Owned Enterprises (BUMN) Performance
Mc Donald F S Porajow (Universitas Katolik De La Salle Manado)

(13.35 – 13.55) Analysis Of Service Marketing Blueprint for The Success of Service Business in Metro Boomerang College, Manado
Teddy Tandaju (Universitas Katolik De La Salle Manado)

(13.55 – 14.15) Application Of an Appropriate Technology to Maintain the Economic Sustainability of Salt Farmers
Judy R. Witono; Herry Santoso; Kevin C. Wanta; Putu P. Deandra (Universitas Katolik Parahyangan)

(14.15 – 14.35) The Culture and Gender's Perspective Among SME's Female Entrepreneurs: A Comparative Studies in Malaysia, Japan, And Indonesia
Theresia Diyah Wulandari (Universitas Atma Jaya Yogyakarta)

(14.35 – 14.55) Islamic Spirituality and Socio-Economic Development of Society in The Province of West Java-Indonesia in The Context of Covid-19 Pandemic
Bernardus Ario Tejo Sugiarto; Abdul Aziz Maarif (Universitas Katolik Parahyangan; Universitas Islam Negeri Sunan Gunung Djati)

(14.55 – 15.15) Increasing The Income of Local Organic-Farmer Through a Social Friendship and Sustainable Farming: A Field Case Study in The Light of Laudato Si and Fratelli Tutti
Fransiskus Borgias; Sutrisna Widjaja (Universitas Katolik Parahyangan)

(15.15 – 15.35) Developing Product Adaptation Capability Model to Improve Green Marketing Performance for SMEs
Ivonne A Umboh (Universitas Katolik De La Salle Manado)

ROOM 2. ENVIRONMENT

(13.15 – 13.35) The Effects of Perceived Risk, Travel Constraints, Fear of Covid on Hotel Visit Intention During The Covid - 19 Pandemic
Nadia Nila Sari; Vonezyo Yupanzara Dharomesz (Universitas Atma Jaya Yogyakarta)

(13.35 – 13.55) Design Of a Non-Pyramidal Modelled Waveguide Horn Antenna for WLAN 2.4 Ghz Communication System
Max Alexander Rura Patras; Lianly Rompis (Universitas Katolik De La Salle Manado)

(13.55 – 14.15) The Impact of Cleanliness, Health, Safety, And Environmental Sustainability Facilities on Tourist Satisfaction at Bukit Kasih
Steven Y. Kawatak; Machiko N. Indriyanto; Aprilia R. Rungkat (Universitas Katolik De La Salle Manado)

(14.15 – 14.35) Exploring The Effects of Social-Economics Status on The Perceived Knowledge on Urban Environment Amongst Primary Students Living in Slum Area of Urban Semarang

Dhiyan Krishna Wardhani; Alfons Christian Hardjana; Augustina Sulastris; Sri Sumijati (Universitas Katolik Soegijapranata)

(14.35 – 14.55) Priority Factor of Developing Island Tourism

Jozef R. Raco (Universitas Katolik De La Salle Manado)

(14.55 – 15.15) The Role of Particle Filter Shell, Septiver Bilocularis, In Enhancing the Attachment of Septiver and Biodiversity Of Tongkaina And Teep Coastal Of North Sulawesi

Medy Ompi; Stella Kaunang (Universitas Katolik De La Salle Manado)

(15.15 – 15.35) The Influence of Promotions on Instagram Towards Tourists' Decision to Visit Puncak Kai'santi Tomohon

Roosalina H. Lucia; Steven Y. Kawatak; Johannes A. Niaboy (Universitas Katolik De La Salle Manado)

2st Day – November 20th, 2021

ROOM 1. GREEN AND RENEWABLE ENERGY, SOCIAL ECONOMICS AND HUMANITIES (11.50

– 12.10) Building Rocket Stove to Support the Sustainable Palm Sugar Industry

Inneke Victor; Indah Kairupan; Angelo Runtu (Universitas Katolik De La Salle Manado)

(12.10 – 12.30) The Urban Waste Treatment Using RDF Method for An Industry Alternative Fuel in Indonesia

Albert Yansen; Chandra Aditya Prapanca; Danny Indra Satya; Danni Arista Kurniawan (STIE Bhakti Pembangunan)

(12.30 – 12.50) A Microcontroller Based Pico Hydro Hydroelectric Power Generation System for Fishpond Lighting

Julie C Rante; Kristian A Dame; Lianly Rompis (Universitas Katolik De La Salle Manado)

(12.50 – 13.10) A System Dynamics Simulation Approach for Describing How Carbon Produced from A Production System

Petrus S. Murdapa; Theresia L. Windyaningrum; Lorensius A.S. Waloyo (Universitas Katolik Widya Mandala Surabaya)

(13.10 – 13.30) Parents and Children Relationship as Depicted in Troy Film Stevanus Ngenget (Universitas Katolik De La Salle Manado)

ROOM 2. DISASTER PREVENTION AND MITIGATION, COVID-19 PANDEMIC AND RECOVERY STRATEGIES

(11.50 – 12.10) The Vernacular Of Disaster: The Rhetoric And Public Memory Of Volcanic Eruption In The Museum Gunung Merapi, Indonesia

Desideria Cempaka Wijaya Murti (Universitas Atma Jaya Yogyakarta)

(12.10 – 12.30) Knowledge Of Adolescents About Prevention Of Flood Disaster In Surabaya City

Iriene Kusuma Wardhani (STIKES Katolik St. Vincentius A Paulo Surabaya)

(12.30 – 12.50) The Role of Youth in Disaster Mitigation

Raditya Kurniawan Djoar; Anastasia Putu Martha Anggarani (STIKES Katolik St. Vincentius A Paulo Surabaya)

(12.50 – 13.10) Disaster Mitigation on Utilization of Telecommunication Infrastructure and Services
Galih Aripawira; M Aghust Kurniawan; Irma Wibiyanti; Rita Rahmawati (Universitas
Faletehan)

(13.10 – 13.30) Behavior Analysis of Using E-Wallet Features in The Covid-19 Pandemic
Era by Applying Technology Acceptance Models
Catharina Clara; Ega Leovani (Universitas Katolik Musi Charitas)

ROOM 3. HEALTH AND EDUCATION

(11.50 – 12.10) Global Health Competencies for Indonesian Nursing Education From
Experts' Perspectives
Indriani Yauri., Henny Suzana Mediani., Dionysius Sumenge (Universitas Katolik De La Salle
Manado)

(12.10 – 12.30) Analysis Of Risk Factors Affecting Musculoskeletal Disorder in Workers
Anastasia Putu Martha Anggarani; Raditya Kurniawan Djoar (STIKES Katolik St. Vincentius A
Paulo Surabaya)

(12.30 – 12.50) The Role of Head CT, Mechanism of Trauma, Severe of Trauma in Improving
Survival Rates for Head Trauma Patients
Irine Yunila Prastyawati; Imelda Feneranda Seravia Tambi; Didik Mulyono (STIKES Katolik St.
Vincentius A Paulo Surabaya)

(12.50 – 13.10) The Use of Gadget in Distance Learning and Its Effect on The Eye Health of
Elementary School Students in Manado
Ferry Doringin; Veronica Yonita Wongkar; Ignatia Doringin; Wahyu Budiana (Akademi
Refraksi Optisi dan Optometri Gapopin; Universitas Katolik De La Salle Manado; Bunda
Perantara School)

(13.10 – 13.30) Moringa oleifera's bioactive compounds as an anti stunting agent reviewed by in
silico analysis"
Laurensi Meity Sasube (Universitas Katolik De La Salle Manado)

(13.30 – 13.50) Beyond the Shadows of Capitalism and Communism: Learning from the Covid-19
Pandemic
Valentino Lumowa (Universitas Katolik De La Salle Manado)

(13.50 – 14.10) Online Buying Behaviour During And After Covid 19
Jozef R. Raco (Universitas Katolik De La Salle Manado)