



Republic of the Philippines
SURIGAO DEL NORTE STATE UNIVERSITY
Narciso Street, Surigao City



29 November 2022

DR. GREGORIO Z. GAMBOA, JR.
University President
Surigao del Norte State University

THRU: MS. LOUELLA S. DEGAMON
Director, Office of International Affairs

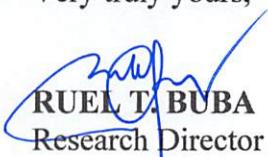
Dear Sir:

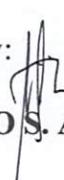
Greetings of wellness and excellence!

The Research Office would like to recommend the participation of our faculty-researchers in an International Research Conference whose papers are successfully accepted by various organizations. Attached are the matrix with outlined details and notice of acceptance from the sponsoring organization for your perusal. It is further recommended that the registration/publication fee of one of the papers will be shouldered by the University through the project fund entitled Assessment of Mangrove Forest and its Services in Barangay Nabago, Surigao City.

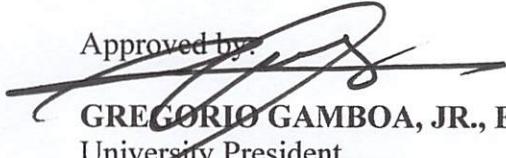
Your favorable response on this recommendation is highly appreciated and anticipated.

Very truly yours,


RUEL T. BUBA
Research Director

Endorsed by: 

MAURICIO S. ADLAON, PhD
VP – RIE

Approved by: 

GREGORIO GAMBOA, JR., EdD
University President



Faculty	Nature of Participation	Research Title	International Event	Sponsor	Date	Mode	Registration Fee
Dr. Manny P. Eviota	Author	Diversity of Macroinvertebrates in the Mangrove Forest of Brgy. Nabago, Surigao City	3 rd Sustainability and Resilience of Coastal Management	SRCM 2022	November 29, 2022	Virtual	Free of Charge c/o ITS Partnership
	Presenter						
Ms. Louella S. Degamon	Author	Length-Weight relationship of bivalves and gastropods from Mangrove Forest of Brgy. Nabago, Surigao City	3 rd Sustainability and Resilience of Coastal Management	SRCM 2022	November 29, 2022	Virtual	250 USD
	Presenter						



Republic of the Philippines
SURIGAO DEL NORTE STATE UNIVERSITY
Narciso Street, Surigao City 8400, Philippines

"For Nation's Greater Heights"



28 November 2022

DR. GREGORIO Z. GAMBOA, JR.
SUC President III
This College

Dear Sir:

Greetings of peace and well-being in this Christmas season!

The International Affairs Office (IAO) would like to endorse to your office the institutionally-funded research papers of our faculty -researchers which were accepted for research paper presentation in the 3rd Sustainability and Resilience of Coastal Management on November 29, 2022 via Zoom platform. The following faculty-researchers and their papers are as follows:

Faculty – Researcher

Research Paper Title

Louella S. Degamon, Manny P. Eviota, Jerry T. Cuadrado, Rosalia L. Hugo, Roselle E. Bertulfo, Medielyn M. Odtojan, Gheleene S. Nabago, Surigao City, Philippines
Buenaflo

Manny P. Eviota, Louella S. Degamon, Jerry T. Cuadrado, Rosalia L. Hugo, Roselle E. Bertulfo, Medielyn M. Odtojan, Gheleene S. Nabago, Surigao City, Philippines
Buenaflo

To make their participation possible, the IAO would like to request your office that registration fees be shouldered by the institution. Further, an issuance of memo is also requested to officially document their participation to the said event. Attached in the acceptance letter, the research paper abstract, and the payment details.

May this request merit your kind consideration and approval.

Thank you very much.

Sincerely,

LOUELLA S. DEGAMON
Director, International Affairs Office

Noted by:

MAURICIO S. ADLAON, PhD
Vice – President, RIE

Approved: _____, 2022

GREGORIO Z. GAMBOA, JR., EdD
SUC President III



RECOMMENDATION FORM FOR INTERNATIONAL ACTIVITY

Date of Recommendation: 27 November

Campus: CITY

Prepared by:

RONINA E. TALINGTING, PhD
Campus Director

The 3rd Sustainability and Resilience of Coastal Management

November 29th, 2022

ONLINE CONFERENCE



Plataforma
Institucional de la
Educación Superior de
Indonesia

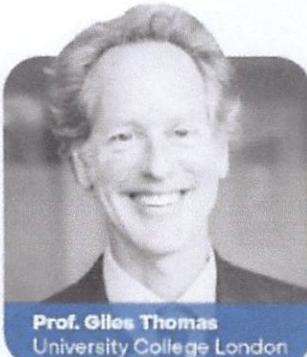


SRCM
2022

Keynote Speaker



Dr. Joanne Porter
Heriot Watt University



Prof. Giles Thomas
University College London



Prof. Daniel Murdiyarso
IPB University



Prof. Heri Kuswanto
ITS Surabaya

CALL FOR PAPER

SRCM 2022's
sub themes

- Integrated planning of coastal area;
- Technology and management related to marine and fisheries resources;
- Geo-marine and mapping application for coastal area;
- Marine and coastal area pollution from wastewater, nutrient, and marine litter;
- Conservation of coastal area;

- Climate change adaptation and mitigation;
- Environmental and hazard mitigation;
- Community resilience and empowerment;
- Green and clean technology for coastal area;
- Sustainable construction;
- Disaster risk management;
- Environmental monitoring and sustainability

SCHEDULE TIMELINE



CONFERENCE & PUBLICATION FEE



Presenting
participant



Non-presenting
participant

Student

Local: IDR 1.000.000
International: USD 150

Local: IDR 100.000
International: IDR 100.000

Non-
Student

Local: IDR 1.500.000
International: USD 250

Local: IDR 200.000
International: IDR 200.000

BANK ACCOUNT

BNI Institut Teknologi Sepuluh Nopember (ITS)
VA Number: 8257713030810004
Name: The 3rd SRCM 2022

REGISTER
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Presenting
participant

s.id/SRCM2022

Non-
presenting
participant

s.id/SRCM2022_NP

FURTHER
INFORMATION:



Contact Person:
Feliq +62857 0439 3089
Firda +62877 0477 4500

Email:
srcm.its@gmail.com



Louella Degamon <ldegamon@ssct.edu.ph>

SRCM2022 – Contribution accepted

2 messages

SRCM ITS <srcm.its@gmail.com>

To: ldegamon@ssct.edu.ph

Mon, Nov 28, 2022 at 5:20 PM

Dear Louella S. Degamon

We are very pleased to inform you that your abstract "**LENGTH – WEIGHT RELATIONSHIP OF BIVALVES AND GASTROPODS FROM MANGROVE FOREST OF BRGY. NABAGO, SURIGAO CITY, PHILIPPINES**" has been accepted for a presentation at the 3rd Sustainability and Resilience of Coastal Management (SRCM) Conference.

We are pleased to welcome you to the SRCM2022!

Kind regards

SRCM2022 Organizing Committee

Louella Degamon <ldegamon@ssct.edu.ph>

Draft To: SRCM ITS <srcm.its@gmail.com>

Mon, Nov 28, 2022 at 5:56 PM

Thank you so much for the great news!

Attached herewith is my pre-recorded video presentation for tomorrow's event.
Thank you so much for the opportunity and consideration.

Kind regards,

Louella S. Degamon

Director, International Affairs

Surigao del Norte State University

Narciso St., Surigao City 8400, Philippines

+639770349712; ldegamon@ssct.edu.ph

"No act of kindness, no matter how small, is ever wasted." —Aesop.

[Quoted text hidden]



Louella Degamon <ldegamon@ssct.edu.ph>

Fwd: SRCM2022 – Contribution accepted

manny eviota <manny.eviota1986@gmail.com>
To: ldegamon@ssct.edu.ph

Mon, Nov 28, 2022 at 6:05 PM

----- Forwarded message -----

From: **SRCM ITS** <srcm.its@gmail.com>
Date: Mon, Nov 28, 2022 at 5:25 PM
Subject: SRCM2022 – Contribution accepted
To: manny eviota <manny.eviota1986@gmail.com>

Dear Haryo Dwito Armono

We are very pleased to inform you that your abstract "**DIVERSITY OF MACROINVERTEBRATES IN THE MANGROVE FOREST OF BRGY. NABAGO, SURIGAO CITY, PHILIPPINES**" has been accepted for a presentation at the 3rd Sustainability and Resilience of Coastal Management (SRCM) Conference.

Please note that you need to pay the Conference and Publication Fee in order to present your paper and to be considered in the selection process for the publication.

Below is the payment information and details for wire transfers:

- **Conference and publication fee**
 - Local student IDR 1.000.000,-
 - Local non-student IDR 1.500.000,-
 - International student USD 150
 - International non-student USD 250
- **Bank account**
 - BNI
 - Swift Code : BNINIDJA
 - VA Number : 8257713030810004
 - Name : The 3rd SRCM 2022

Deadline for the payment: **November, 28th 2022**. You will receive a payment acceptance notification from us once we receive your payment. If you have already made a payment, you only need to submit to <https://s.id/SRCM2022>.

Please note that as you are registered as a international non-student you need to pay USD 250,- for the conference and publication fee.

As soon as the detailed session planning is completed, we will inform you about the session allocation for your proposal.

We are pleased to welcome you to the SRCM2022!

Kind regards

SRCM2022 Organizing Committee

**LENGTH – WEIGHT RELATIONSHIP OF BIVALVES AND GASTROPODS
FROM MANGROVE FOREST OF BRGY. NABAGO, SURIGAO CITY,
PHILIPPINES**

Louella S. Degamon^{2*}, Manny P. Eviota², Rosalia L. Hugo¹, Roselle E. Bertulfo¹,
Medielyn M. Odtojan¹, Gheleene S. Buenaflor¹, Jerry T. Cuadrado¹

²College of Teacher Education, ¹ College of Arts and Sciences
Surigao State College of Technology, Narciso St., Surigao City, 8400 Caraga, Philippines
*Corresponding Author: ldegamon@ssct.edu.ph

Abstract

Bivalves and gastropods are among the most important food resource in coastal communities. The destructive ways of harvesting these mangrove associate fauna may cause a threat to the forest and may alter the physiological condition of these organisms. The length-weight relationship of two bivalves (*Anodontia edentula* and *Saccostrea cuccullata*) and 11 gastropods (*Littoraria angulifera*, *Littoraria melanostoma*, *Littoraria scabra*, *Chicoreus capunicus*, *Tenguella musiva*, *Nerita exuvia*, *Nerita lineata*, *Cerithidea decollata*, *Terebralia palustris*, and *Terebralia sulcata*) species collected from the mangrove forest of Barangay Nabago, Surigao City was assessed in this study. *A. edentula* exhibits positive allometry ($b=3.7002$) while *S. cuccullata* shows negative allometry ($b=2.6145$). The 11 gastropod species demonstrate a negative allometric pattern ($b<3$). The negative allometric pattern of these species indicates that the length increased faster than the weight, which could be attributed to the different environmental factors in the area. The data obtained in this study is essential for the monitoring of these organisms and management of the entire mangrove ecosystem in the area in the area.

Keywords: Mangrove associate fauna, negative allometry, shell growth

DIVERSITY OF MACROINVERTEBRATES IN THE MANGROVE FOREST OF BRGY. NABAGO, SURIGAO CITY, PHILIPPINES

Manny P. Eviota^{2*}, Louella S. Degamon², Rosalia L. Hugo¹, Roselle E. Bertulfo¹, Medielyn M. Odtojan¹, Gheleene S. Buenaflor¹, Jerry T. Cuadrado¹

² College of Teacher Education, ¹ College of Arts and Sciences
Surigao State College of Technology, Narciso St., Surigao City, 8400 Caraga, Philippines
*Corresponding Author: meviota@ssct.edu.ph

Abstract

Macroinvertebrate assemblages in the mangrove forest were assessed to determine the baseline information on the marine ecosystem in Barangay Nabago. Physicochemical parameters of soil and water were also determined to correlate with these bio-indicators. Three sampling stations were established. Live specimens were collected from natural substrates such as rocks, leaves, wood, and other debris through hand picking. To obtain macrobenthos, soil samples were collected using a core method with six-core samples from each plot. A 500 micrometer (0.5 mm) mesh size sieve was used to separate the macroinvertebrates from the sediments and any debris. A multiparameter checker determined the physicochemical parameters of water such as dissolved oxygen, pH, temperature, total dissolved solids, and conductivity. Biodiversity indices such as species richness, abundance, density, Shannon-Weiner diversity index, and evenness were calculated using the Paleontological Statistical Software Package (PAST) version 3.20 with correlation analysis using Canonical Correspondence Analysis (CCA). Station 3 obtained the highest frequency count of macroinvertebrates compared to the first (1) and second (2) stations, which correlate to the highest numerical value of the physicochemical parameters such as dissolved oxygen (DO), conductivity, and pH. These physicochemical parameters were favorable for macroinvertebrate species to thrive. Soil characterized with the highest percentage of the sandy substrate also contributed to macroinvertebrates' diversity, particularly in station 3, which obtained the highest diversity index ($H' = 2.436$).

Keywords: *Brgy Nabago, Canonical Correspondence Analysis, Macroinvertebrates, Physico-chemical Parameters*



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LINGKUNGAN

Joint International Conference on Sustainable Coastal Management

The 3rd Sustainability and Resilience of Coastal Management

November 29th, 2022

ONLINE CONFERENCE

CONFERENCE AGENDA

Joint International Conference on Sustainable Coastal Management

THE 3RD SUSTAINABILITY AND RESILIENCE OF COASTAL MANAGEMENT

Conference Agenda

November 29th 2022

SCHEDULE

Date : Tuesday, November 29th 2022
Time : 07:30 – 17:00 WIB (UTC/GMT+7)
Venue : Zoom Teleconference Meeting
Meeting ID : 949 459 465 12
Password : 1H3V960C
Zoom Link : <https://s.id/InternationalSeminarSRCM2022/>

No	Time	Activity	Description
1	07:30 – 08:30	Opening/Registration	Main room
2	08:30 – 09:00	<ol style="list-style-type: none">1. Opening Remark from the Chairman of SRCM 2022 by Mr. Adjie Pamungkas, S.T., M.Dev.Plg., Ph.D.2. Opening Remark from Vice Rector of Research, Innovation, Collaboration and Alumni Affairs by Bambang Pramujati S.T. M.Sc.Eng. Ph.D.	Main room
3	09:00 – 10:30	<p>Keynote speech:</p> <ol style="list-style-type: none">1. Prof. Dr. Daniel Murdiyarno from IPB University2. Prof. Heri Kuswanto from ITS Surabaya <p>Moderator: IDAA Warmadewanthi, Ph.D. / Dr. Eko Yuli Handoko</p>	Main room
4	10:30 – 11:30	Question and Answer Session	Main room
5	11:30 – 13:00	Break Time	Main room
6	13:00 – 15:00	Parallel session (Conference Session): 7 topics/classes (15 minutes each presenter, including question and answer session)	Breakout room
7	15:00 – 15:30	Break Time	Main room
7	15:30 – 16:15	<p>Keynote speech:</p> <ol style="list-style-type: none">1. Prof. Joanne Porter from Heriot Watt University Oarkney Campus* <p>Moderator: Dr. Dian Saptarini / Ainul Firdatun Nisaa, S.T., M.Sc.</p>	Main room
8	16:15 – 17:00	Question and Answer Session	Main room
9	17:00	Closing Remark from the Chairman	Main room

BREAK OUT SESSION

The conference will be held in 7 different classes with the following distribution:



The details of presenters for each room are as follows:

Room 1: Sustainable Construction			
No.	Name	Affiliation	Title
1	Syaifudin Zuhri	ITS	The Effect Of Additional River Calm Shells (Haremis cece) As Fine Aggregate On Permeability Of Porous Concrete
2	Dhea Pratama Novian Putra	Department of Geomatics Engineering, Institut Teknologi Sepuluh Nopember	Subsurface Identification using Resistivity Method for Infrastructure Planning in Benowo Area, Surabaya City
3	Yusroniya Eka Putri Rachman Waliulu	Civil Engineering ITS	System Thinking for Improving the Infrastructure Rehabilitation Budget Allocation Accuracy
4	Ika Masruroh	University of Trunojoyo Madura	Evaporation Rate Analysis Of Raw Water In Salt Production Using a Prototype At Salt House
5	Haris Septian	Marine Science Department, University of Trunojoyo Madura	Potassium and calcium content in padelegan waters which is used as the raw water for making salt
6	Nadila Ayu Novanti	Institut Teknologi Sepuluh Nopember	Seepage Identification of Sidoarjo Mud Embankment via 2D Resistivity and Self-Potential Methods
7	Moh Arif Rohmatullah	Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia	The Performance of Cylinder Electrocoagulation Process on the Reduction of BOD, COD, TSS and Total Nitrogen from the Landfill Leachate
8	Maharah Huwaina Madini	Institut Teknologi Sepuluh Nopember	The potential of Scheduled Faecal Sludge Service (LLTT) Program in Sidoarjo (Case Study: Sidoarjo)
9	Nor Zainah	Institut teknologi sepuluh nopember	Drainage System Modelling with Low Impact Development Method using the EPA SWMM (Case Study: Balconix Villa Batu)

Room 2: Community Resilience and Empowerment			
No.	Name	Affiliation	Title
1	Asirin	Lecturer at Institut Teknologi Sumatera and Doctoral student at IPB University	Community acceptance of a large-scale floating photovoltaic power plant at Cirata Reservoir, Indonesia
2	Tirtadanu	National Research and Innovation Agency (BRIN)	Exploitable biomass and acceptable biological catch (ABC) for mud spiny lobster (<i>Panulirus polyphagus</i> Herbst, 1793) in North Kalimantan Waters, Indonesia using data-limited fisheries
3	Nova Maulidina Ashuri	Institut Teknologi Sepuluh Nopember	Local Ecological Knowledge (LEK) Applications Herbal Medicine for Aquaculture Ecosystem in Sidoarjo, East Java
4	Anandhika Arifianto	Institut Teknologi Bandung	Involvement of Indigenous and Non-Indigenous Societies through the Development of Zero Waste Concepts Affecting Coastal Tourism Management: Case Studies from Indonesia
5	Febbiana Dewi	Universitas Veteran Bangun Nusantara	DEVELOPMENT OF INFORMATION SYSTEM FOR EMERGENCY DISASTER MANAGEMENT IN TRENGGALEK DISTRICT
6	I K A P Utama	Institut teknologi sepuluh nopember	Managing the Spread of COVID-19 Pandemic in Indonesian Sea Transportation
7	Eko Nurmianto	Institut Teknologi Sepuluh Nopember	Seaweed Cultivation and Processing Model for Improvement Economic Welfare of Coastal Communities of Probolinggo Regency, East Java
8	Eko Nurmianto	Institut Teknologi Sepuluh Nopember	Research On Social Mapping As a Foundation for Sustainable of Coastal Community Management
9	Medielyn M. Odtojan	Surigao del Norte State University	Economic Valuation and Perceptions on Mangrove Resources: Toward Mangrove Conservation and Management in Nabago, Surigao City

Room 3: Tech and Management Related to Marine and Fisheries Resources			
No.	Name	Affiliation	Title
1	Kharis Abdullah	Politeknik Perkapalan Negeri Surabaya	Design Construction of Catamaran Boat Made from High Density Polyethylene (HDPE)
2	Rizky Chandra Ariesta	Department Naval Architecture/Institut Teknologi Sepuluh Nopember	Protecting the Country from Bio-invasion, a Case Study of Biofouling Management in Indonesia
3	Farid Kamal Muzaki	Dept. of Ocean Engineering, Institut Teknologi Sepuluh Nopember	Coral recruits on concrete Hemispherical Artificial Reef (HSAR) with different composition in Pasir Putih, Situbondo, Indonesia
4	Warih Hardanu	National Research and Innovation Agency-Indonesia	Effect of temperature on plantlet <i>Kappaphycus alvarezii</i> growth
5	Helman Nur Yusuf	National Innovation Research Agency	Dynamics Of Indo-Pacific King Mackerel (<i>Scomberomorus Gutatus</i>) With Drift Gill Nets In Tarakan Waters, North Kalimantan
6	CANDRA IRAWAN	Institut Teknologi Sepuluh Nopember	Numerical Study of the of Proposed Hexaloc Concrete Armor Units under Static Loading
7	Haryo Dwito Armono	Institut Teknologi Sepuluh Nopember	Wave Reflection of Concreate Armour Unit : A 2D Physical Model Study
8	Adhitya Wicaksana	Institut Teknologi Sepuluh Nopember	The Usage of Unmanned Aerial Vehicle for Coastal and Marine Search and Rescue Operation

Room 4A: Marine and Coastal Area Pollution from Wastewater, Nutrient, and Marine Litter

No.	Name	Affiliation	Title
1	Barqhadini Ayuningsih	Institut Teknologi Sepuluh Nopember	The Use of Fly Ash and Bottom Ash as Filtration Media to Reduce COD, TSS, and Color in Textile Industry Wastewater Effluent
2	Anita Dwi Anggrainy	Institut Teknologi Sepuluh Nopember	Assesment of Cadmium (Cd) Heavy Metal at Mangrove Forest Wonorejo, Surabaya
3	Yulia Maghriba	Institut Teknologi Sepuluh Nopember	Range Finding Phytotoxicity Test of Heavy Metal Chromium Hexavalent (Cr 6+) Against Avicennia marina
4	Annisa Hanako	Institut Teknologi Sepuluh Nopember (ITS)	Removal of remazol black dye using recirculation batch electrocoagulation
5	Berliana Khansa Salsabila	Institut Teknologi Sepuluh Nopember	Neural Network Modelling for Prediction of Coagulant dosage
6	Ipung Fitri Purwanti	Institut teknologi sepuluh nopember	Ability of Palm Kernel Shell Adsorbent in Reducing Mercury (Hg)
7	Aizat Khairi	Universiti Kuala Lumpur (UniKL)	PLASTICS POLLUTION AND AQUATIC ECOSYSTEM KNOWLEDGE: THE AWARENESS AMONG MARITIME OPERATIONS STUDENTS

Room 4B: Marine and Coastal Area Pollution from Wastewater, Nutrient, and Marine Litter

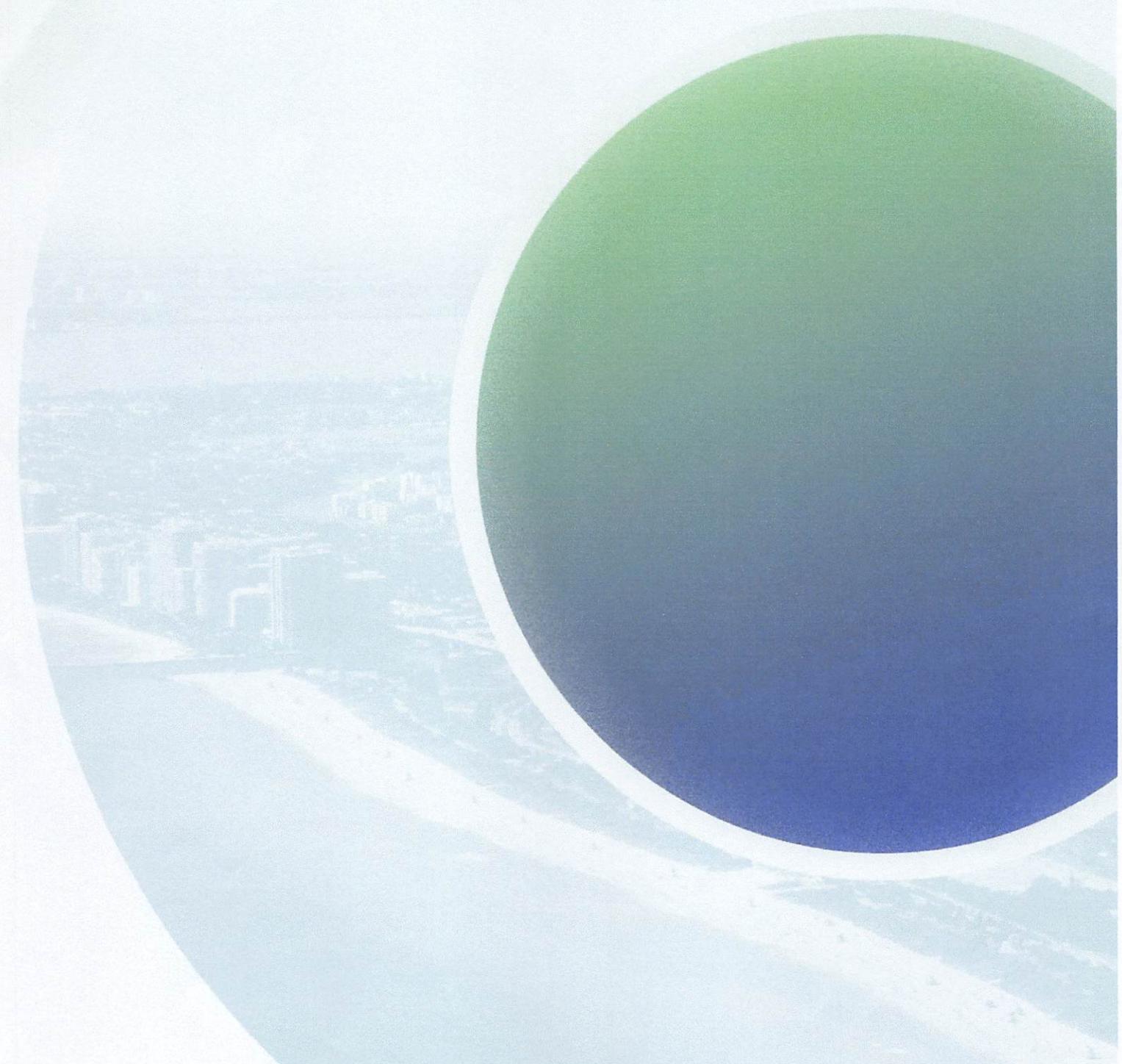
No.	Name	Affiliation	Title
1	Diah Pitaloka	Universitas Trunojoyo Madura	Comparison Between The Measurement of Dissolved Oxygen With DO Meter And The Winkler Method
2	Pertiwi Margarana Nirwisaya	Institut Teknologi Sepuluh Nopember, Keputih, Sukolilo, Surabaya, Indonesia	Phytotoxicity test of cadmium and lead on sunflower (<i>Helianthus annuus L.</i>) as first step in phytoremediation
3	Basuki Waskitho Adi	Environmental Engineering Department, Sepuluh Nopember Institut of Technology	Non-revenue water reduction analisys through Supply adjustment at Perumda air minum tirta khatulistiwa (case study: pontianak timur distribution network)
4	IDAA Warmadewanti	Institut Teknologi Sepuluh Nopember	Phosphate and ammonium recovery of fertilizer industry wastewater using continuous stirred tank reactor
5	Ayu Kusuma Wardhani	Institut Teknologi Sepuluh Nopember	Energy Consumption Evaluation and Analysis of Energy Efficiency Improvement in Sistem Penyediaan Air Minum (SPAM) Cicalengka Perumda Tirta Raharja Kabupaten Bandung
6	Laksmi Kurnia Santi	Institut Teknologi Sepuluh Nopember	Controlling Non Revenue Water (NRW) With The Establishment of District Meter Area (DMA) In Zone J, Perumda Air Minum Tirta Khatulistiwa, Pontianak City
7	Asirin	Lecturer at Institut Teknologi Sumatera and Doctoral student at IPB University	Planning Progress and Potential Consequences of Floating Photovoltaic Power Plant Development in Cirata Reservoir, Indonesia

Room 5: Disaster Risk Management

No.	Name	Affiliation	Title
1	Novi Andhi Setyo Purwono	Universitas Wijayakusuma Purwokerto	Behavior Propagation of Surge Tsunami in Casuarina equisetifolia Forest
2	Mohamad Bagus Ansori	Institut Teknologi Sepuluh Nopember (ITS)	Synthetic Unit Hydrograph Related Peak Discharge Analysis for Tugu Dam Disaster Risk Mitigation
3	HEINRICH RAKUASA	Universitas Indonesia	Spatial Dynamics of Tsunami Prone Areas in Nusaniwe District, Ambon City, Maluku Province, Indonesia
4	Shilvy Choiriyatun Navisa	Institut Teknologi Sepuluh Nopember	Analysis of GPS and IMU Sensor Data Fusion Using the Unscented Kalman Filter Method on Medical Drones in Open
5	Betty Ariani	Universitas Muhammadiyah Surabaya	Investigating Airflow Patterns in the XYZ Passenger Ship's Accommodation Room on the Potential for COVID-19 Exposure to Passengers
6	Achmad Ghazali	Institut Teknologi Kalimantan	Fire Incidents Probability Modeling in Balikpapan
7	Adjie Pamungkas	Institut Teknologi Sepuluh Nopember	Surabaya Earthquake Risk Assessment: A Wake Up Call for Indonesia

Room 6: Mix Topic

No.	Name	Affiliation	Title
1	Diah Ayu Setyawati	University of Trunojoyo Madura	Distribution Pattern of Temperature and Salinity in Pademawu Waters, Pamekasan, East Java Using the program R Studio
2	HEINRICH RAKUASA	Universitas Indonesia	Analysis of Land Cover Change due to urban Growth in Central Ternate District, Ternate City using Cellular Automata-Markov Chain
3	Rista Fitri Indriani	Department of Geomatics Engineering/ITS	Comparative Analysis of Physiographic Study for Hydrology of Benowo Region, Surabaya
4	Hamzah Haru Radityo Suharyanto	National Research and Innovation Agency	Submarine landslide-induced tsunami generation in Makassar strait, Indonesia using Non-hydrostatic wave model
5	Nonik Sumarsih	Institut teknologi sepuluh nopember	Analysis Mangrove Community Carbon Stock as Blue Carbon in the Mangrove Ecosystem at Telok Bangko Bontang
6	Louella S. Degamon	Surigao del Norte State University	LENGTH – WEIGHT RELATIONSHIP OF BIVALVES AND GASTROPODS FROM MANGROVE FOREST OF BRGY. NABAGO, SURIGAO CITY, PHILIPPINES
7	Manny P. Eviota	Surigao del Norte State University	DIVERSITY OF MACROINVERTEBRATES IN THE MANGROVE FOREST OF BRGY. NABAGO, SURIGAO CITY, PHILIPPINES
8	Rosalia L. Hugo	Surigao del Norte State University	Species Diversity and Carbon Stock Assessment of Natural Mangrove Forests in Barangay Nabago, Surigao City, Philippines
9	Arseto Yekti	Institut Teknologi Sepuluh Nopember	The Performance of Cylindrical Electrocoagulation Process on the Reduction of BOD, COD, TSS, and Total Nitrogen from the landfill leachate



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