

List of Conference Chairs

Conference Chair: 2022 Research, Invention, and Innovation Congress (RI2C2022)

1. Advisory Chair

Suchart Siengchin, King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand

2. Conference Chair

Somrerik Chandra-ambhorn, KMUTNB, Thailand

Kampanart Theinnoi, KMUTNB, Thailand

3. General Secretary

Wanlop Harnnarongchai, KMUTNB, Thailand

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Somrerik Chandra-ambhorn, KMUTNB, Thailand

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Titipong Lertwiryaprapa, KMUTNB, Thailand

Rungsima Yeetsorn, KMUTNB, Thailand

Wanlop Kitisatorn, KMUTNB, Thailand

Sunanta Sodsee, KMUTNB, Thailand

Pornsak Srisungsitthisunti, KMUTNB, Thailand

Nonchanutt Chudpooti, KMUTNB, Thailand

Watchareewan Jitsakul, KMUTNB, Thailand

Chaniga Chuensangjun, KMUTNB, Thailand

6. Innovative Sustainable Science (iSS) Editors

Managing Editor: Malinee Sriariyanun, KMUTNB, Thailand

Editorial board members:

Yu-Shen Cheng, National Yunlin University of Science and Technology, Taiwan

Debraj Bhattacharyya, IIT Hyderabad, India

Wawat Rodiahwati, University of New England, Australia

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Secretary: Nichaphat Kitiborwornkul, KMUTNB, Thailand

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Keethi Katam, Mahindra University, India

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Vanarat Phakeenuya, KMUTNB, Thailand

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Atthasit Tawai, KMUTNB, Thailand

Aim and Scope of iss2022

2022 Research, Invention, and Innovation Congress (RI2C2022) (<https://www.ri2c-2022.com/home.aspx>)

Session: Innovative Sustainable Science (iSS)

Venue: Online Conference at King Mongkut's University of Technology North Bangkok, Thailand

Conference date 4-5 August 2022

Aim and Scope

Main topic coverages: Environmental and Energy Technology

The other topics related to Environmental and Energy Technology include, but not limit to

- Environment
- Energy and Earth Sciences
- Soil Sciences
- Hydrology
- Geography
- Energy Engineering (Production, Distribution and Storage)
- Renewable Energy
- Sustainable Development
- Natural Resource Management

Editorial policies

Evaluation process

All full papers will be subjected to double blind peer-reviews with at least 2 reviewers. The evaluation will be based on the relevancy to the conference scope, structure of the manuscript, logical and scientific merits, innovative, presentation, format and ethic of publications. The communication between the editorial office and reviewers is kept confidential. Reviewers should not disclose any information. After review of the manuscript by at least two independent reviewers, the decision will be made by the editor, which can be categorized in three conditions as follows; Accept without changes, Revisions Required, and Reject. The results of reviewing process will be informed via email from the conference organizer.

Paper submission guidelines

The full paper must be written in English language. Full papers should be original and unpublished research or review in topic areas covered by the iSS-Ri2C theme with the length 7-10 pages. The key compositions of the full research papers include 1) Abstract, 2) Introduction, 3) Materials and methods, 4) Results and discussion, 5) Conclusion, 6) Acknowledgement, 7) References.

Ethics in publishing

Iss2022's Publication Ethics is based on the guidelines and standards developed by the Committee on Publication Ethics (COPE : <https://publicationethics.org/>).

Plagiarism

Plagiarism and self-copying contents are absolutely prohibited in iss's proceeding. All submitted manuscript will be screened with plagiarism detection software. The screened manuscript by software and editor will be proceeded to reviewing process.

Opening session: Advisory Chair opening



General Chair opening



Plenary Speakers

Keynote Speaker I

Dr.-Sadayuki-Sato
 Director Engineering Division of YASKAWA ELECTRICS (THAILAND) CO.,LTD

Trend of research and development on smart drive technology "Power electronics and Motor control"

Keynote Speaker II

Prof.Dr. Surin Khomfoi
 King Mongkut's Institute of Technology Ladkrabang, Thailand

Thailand EV Infrastructure: Are we ready?



STRI KMUTNB virtual congress
Passion for the Future
4-5 August, 2022
Research, Invention and Innovation Congress RI²C

Trends in Rubber and Plastics Manufacturing

Prof. Dr.-Ing. Edmund Haberstroh
RWTH Aachen University and DIK Hannover
haberstroh@is.rwth-aachen.de

Keynote Speaker III

Prof. Dr.-Ing. Edmund Haberstroh
RWTH Aachen University, Germany

Trends in Rubber and Plastics
Manufacturing Technology



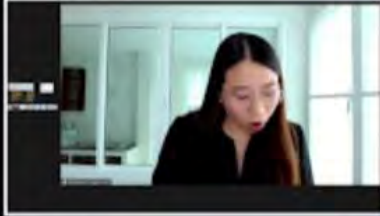
Railway research and innovation for
global challenges, and benchmarking
for excellence

Dr Sakdirat Kaewunruen
School of Engineering, University of Birmingham
<http://orbis.bham.ac.uk/staffpages/ksa20001@bham.ac.uk>

Keynote Speaker IV

Prof. Dr. Sakdirat Kaewunruen
University of Birmingham, UK

Railway research and innovation for
global challenges,
and the benchmarking for excellence




00:45
14:43
Next slide

Benchmarking for Excellence

Malware operations have inevitably been faced with various problems that have had a negative impact on the service, causing **unsuccessful operations**.








Time	Destination	Port	Expected
18:06	Yantai America &	7	Delayed
18:02	Atlan	-	Delayed
18:12	Bangkok	-	Delayed
18:13	Portsmouth Ibr via	-	Delayed
18:20	Enner St. Saville &	-	Delayed
18:28	Denking	2	Delayed
18:24	Denking	-	Delayed
18:25	Atlan	-	Delayed
18:20	Portsmouth Ibr via	-	Delayed



Click to add notes

Page 1 of 8
1828:17

Slide 2 of 21
K K

4 August 2022. ISS Section 1, Room 1. Visual platform. Time 13.15-17.00

Session Chairs: Malinee Sriariyanun

Co-chair: Elizabeth Jayex Panakkal

Secretary : Nichaphat Kitiborwornkul

Iss2022-01



pin pwp Staff6

Timer pin pwp Staff6 Par|Pakkawat Par_Martin

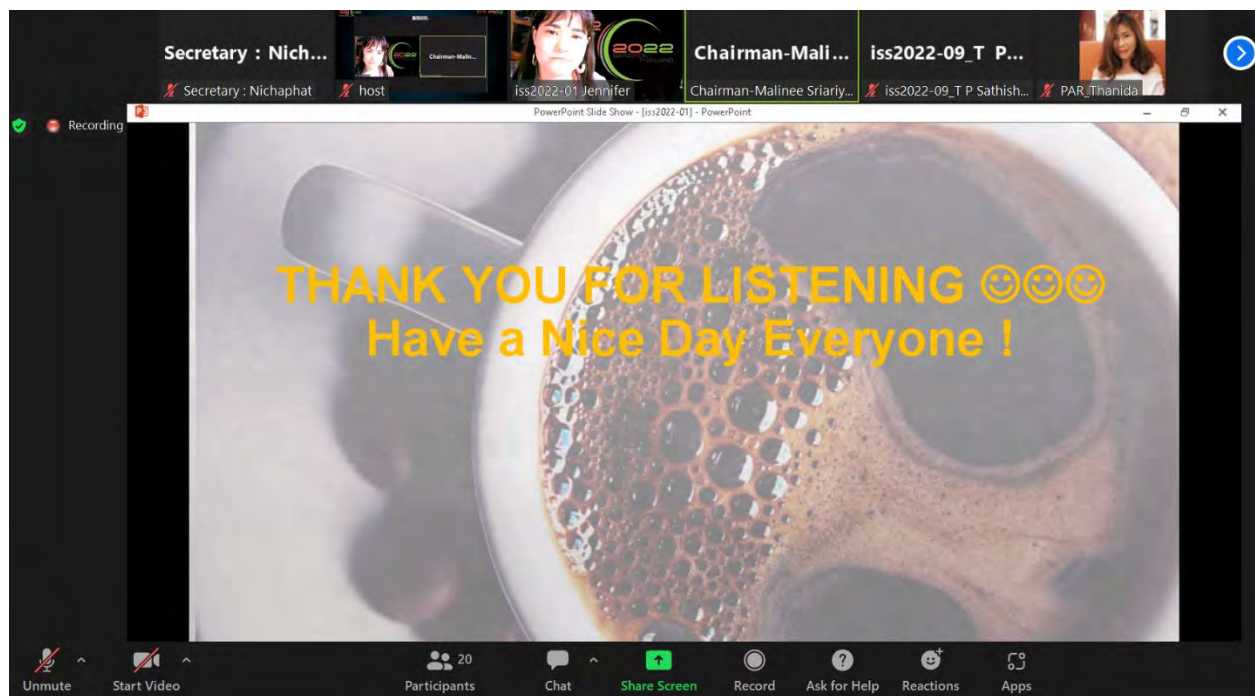
Recording

Lead (Pb^{2+}) Removal in Water Using Different Forms of Spent Arabica Coffee Grounds at Varying Contact Time

Jennifer Bandao-Antonio¹, Giovanni Malapit¹, John Paul Mendoza¹, and Joerandel Valdez¹

¹Department of Physical Sciences, University of the Philippines Baguio, Governor Pack Road Baguio City, 2600 Philippines

Corresponding author: jbantonio4@up.edu.ph



Secretary : Nich... Chairman-Mali... iss2022-09_T P...

Secretary : Nichaphat host iss2022-01 Jennifer Chairman-Malinee Sriariy... iss2022-09_T P Sathish... PAR_Thanida

Recording

THANK YOU FOR LISTENING 😊😊😊 Have a Nice Day Everyone !

Unmute Start Video Participants 20 Chat Share Screen Record Ask for Help Reactions Apps

Secretary : Nich... Chairman-Mali... iss2022-09_T P...

Recording

Cultivated Banana

- Cultivated bananas can be grown everywhere in Thailand all year round.

Unmute Start Video Participants 20 Chat Share Screen Record Ask for Help Reactions Apps

03:10 Timer host iss2022-02 Koh Jin Kwej Pari Pakkawat Co-Chair- Elizabeth Ja... pin

Recording

THANK YOU

Recording

host iss2022-02 Koh Jin Kwei iss2022-12-Rishika Par Pakkawat Co-Chair- Elizabeth Ja... pin

Research, Invention, and Innovation Congress (RI²C 2022)

The impact of light intensity and wavelength on the performance of algal-bacterial culture treating domestic wastewater

KEERTHI KATAM^{1*}, **RISHIKA ANANTHULA²**, SUSHMITHA ANUMALA², MALINEE SRIARIYANUN³, AND DEBRAJ BHATTACHARYYA¹

¹DEPARTMENT OF CIVIL ENGINEERING, ÉCOLE CENTRALE SCHOOL OF ENGINEERING, MAHINDRA UNIVERSITY, TELANGANA, 500043, INDIA
²DEPARTMENT OF CIVIL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD, KANDI, TELANGANA, 502285, INDIA
³CHEMICAL AND PROCESS ENGINEERING, THE SIRINDHORN INTERNATIONAL THAI-GERMAN GRADUATE SCHOOL OF ENGINEERING, KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK, BANGKOK, 10500, THAILAND

Recording

Secretary : Nichaphat iss2022-12-Rishika Chairman-Malinee Sri... iss2022-09_T P Sathish... iss2022-01-Jennifer 05:24 Timer View

Thank You!

Zoom Meeting

Recording

Secretary : Nich...
Secretary : Nichaphat

iss2022-19-Vanarat
ISS2022-19-Vanarat

iss2022-12-Rishika...
iss2022-12-Rishika

Chairman-Mali...
Chairman-Malinee Sri...

Par_Marttin
Par_Marttin

Timer

KMUTNB
RI² 2022
BANGKOK THAILAND
Research, Invention, and Innovation Congress

PASSION For THE FUTURE
4-5 AUGUST, 2022
RESEARCH, INVENTION AND INNOVATION CONGRESS
A VIRTUAL CONFERENCE

Identification of bacterial species from healthy wood of *Aquilaria crassna* using colony PCR

Vanarat Phakeenuya, Bowonlak Phetsri, Thidarat Khunsuksaen, Weeradej Meeinkuirt, and Theerawut Phusantisampan

32°C
4:08 PM 8/4/2022

Recording

Secretary : Nich...
Secretary : Nichaphat

iss2022-19-Vanarat
ISS2022-19-Vanarat

Chairman-Mali...
Chairman-Malinee Sri...

Par_Marttin
Par_Marttin

03:30
Timer

host

THANK YOU FOR YOUR ATTENTION

Recording

iss2022-09_T P... pin

Research Invention and Innovation Congress (RI²) 2022, Bangkok

A comparative study of pH and temperature on rheological behaviour between Polyacrylamide (PAM) and its modified PAM

Paper ID: iSS2022-02

Jin Kwei Koh¹, Chin Wei Lai^{1}, Mohd Rafie Johan¹, Sanjay Mavinkere Rangappa², Suchart Siengchin²*

¹Nanotechnology & Catalysis Research Centre (NANOCAT), Level 3, Block A, Institute for Advanced Studies, University of Malaya (UM), 50603, Kuala Lumpur, Malaysia.

²Natural Composite Research Group Lab, Department of Materials and Production Engineering, The Sirindhorn International Thai-German Graduate School of Engineering (TGGSE), King Mongkut's University of Technology North Bangkok (KMUTNB), Bangkok, Thailand.

Iss2022-09

Secretary : Nich... ISS2022-19-Van... Chairman-Mali ...

Recording

Secretary : Nichaphat iss2022-02 Koh Jin Kwei iss2022-09 T P Sathishku... ISS2022-19-Vanarat Chairman-Malinee Sri... Co-Chair-Elizabeth Ja...

Research, Invention, and Innovation Congress A Virtual Conference (RI²C 2022)
Innovative Sustainable Sciences (ISS)
Date on: 04.08.2022 Paper ID : iss2022-09

Improving the mechanical properties of jute fiber woven mat reinforced epoxy composites with addition of Zinc oxide filler

Presented By

Dr. T P Sathishkumar
Department Mechanical Engineering, Kongu Engineering College, Perundurai, Erode, Tamilnadu, India

Dr.L Rajeshkumar
Dr.G Rajeshkumar
Dr.M R Sanjay
Dr.Suchart Siengchin

Secretary : Nich... ISS2022-19-Van... Chairman-Mali ...

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Thank You

14:53

host Timer iss2022-10_Natchayaporn Pari Pakkawat iss2022-01 Jennifer Co-Chair-Elizabeth Ja...

Recording

Study of the Titanium Dioxide Nanoparticles Used as UV absorber on Natural Herbal Extract Sunscreen Products

Supamas Wirunchit, Natchayaporn Sakulpeeb, Wantana Koetniyom

<https://www.mdpi.com>

Zoom Meeting

Secretary : Nich... Chairman-Mali... pwp

Secretary : Nichaphat iss2022-10_Natchayaporn Chairman-Malineee Sri... pwp iss2022-02 Koh Jin Kwei host

Recording

Thank you for your attention.

5 August 2022. ISS Section 2, Room 1. Visual platform. Time 09.00-14.45



Session Chairs: Malinee Sriariyanun

Co-chair: Prapakorn Tantayotai

Secretary : Nichaphat Kitiborwornkul

Iss2022-25

You are viewing iss2022-25-Thanasak Nilsonthi's screen View Options



Formation of Thermal Oxide Scale and Its Adhesion to Hot-Rolled Low Carbon Steels with Different Final Strip Thicknesses

Sun Naipinij, Sasapan Sukieum, Ravinupha Namprai,
Thanasak Nilsonthi

High Temperature Corrosion Research Centre and Department of Materials and Production Technology Engineering,
Faculty of Engineering, King Mongkut's University of Technology North Bangkok


Unmute Start Video Participants 12 Chat Share Screen Record Ask for Help Reactions Apps Leave Room

Recording

Secretary : Nich...
Secretary : Nichaphat iss2022-25-Thanasak NILS... Chairman-Malinee Sri... iss2022-14-Wiriya Cha... Jen Antonio ISS2022-23, Anne

Thank you

MILL SCALE USES



Batteries Cement clinker Sinter, Recycling material

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Recording

Secretary : Nich... 14:55

Secretary : Nichaphat Chairman-Malinee Sri... monsieurbabu@gmail.com Jen Antonio ISS2022-23, Anne Timer



THE COMBINED EFFECT OF INORGANIC SALT AND IONIC LIQUID IN PRETREATMENT ON ENZYMATIC SACCHARIFICATION OF RICE STRAW

Diana Jose¹, Neelu Raina², Rajagopal Deepakkumar³, Elizabeth Jayex Panakkal¹, Malinee Sririyanun¹, and Tawiwat Kangsadan¹

¹Biorefinery and Process Automation Engineering Center, Department of Chemical and Process Engineering, TGGS, King Mongkut's University of Technology North Bangkok, 10800 Bangkok, Thailand
²School of Biotechnology, Shri Mata Vaishno Devi University, Katra, J&K-182320, India
³Mechanical Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India

King Mongkut's University of Technology North Bangkok (KMUTNB), Bangkok Campus, Thailand

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Secretary : Nich... 03:54

Secretary : Nichaphat Chairman-Malinee Sri... monsieurbabu@gmail.com ISS2022-23, Anne Kriangsak Ketpang Timer

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17

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Chairman-Malinee Sri...


Co-Chair_ISS_Prapako...
Co-Chair_ISS_Prapako...

ISS2022-20_Martin...
ISS2022-20_Martin...

monsieurbabu...
monsieurbabu@gmail...

Introduction

- Lignocellulosic biomass is the most abundant and promising alternative renewable resource for the production of bioenergy and valuable chemical by-products
- Lignocellulose is a complex structure with three polymer layers: **cellulose, hemicellulose, and lignin.**
- Lignocellulosic biomass includes **agricultural residues, energy crops, wood residues and other waste.**
- Coconut coir and pith residues of *Cocos nucifera* (Coconut) is an agricultural waste generated in higher amounts in India



https://www.researchgate.net/figure/Different-parts-that-compose-the-coconut-fruit-Photo-Fernando-Cintra_fig1_332857216

8/4/2022

2

Recording

Secretary : Nich...
Secretary : Nichaphat

Chairman-Malinee Sriary...
Chairman-Malinee Sriary...

Co-Chair_ISS_Prapako...
Co-Chair_ISS_Prapako...

ISS2022-20_Martin...
ISS2022-20_Martin...

monsieurbabu...
monsieurbabu@gmail...

Dilute Inorganic Acid Pretreatment of Mixed Residues of *Cocos nucifera* (Coconut) for recovery of reducing sugar: Optimization studies

THANK YOU



Research, Invention, and Innovation Congress

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Iss2022-22


Zoom Meeting - Presentation Room

You are viewing Iss2022-22-Thanasak Nilsonthi's screen

iss2022-03-Jag... ISS-2020-11-Kit...

iss2022-22-Thanasak Nils... iss2022-03-Jagadeesh... ISS-2020-11-Kittimapo... ISS2022-05 Pakkawat ...

Recording



Effects of Oxygen and Water Vapour on Adhesion of Scale Grown on Ferritic Stainless Steels in Solid Oxide Fuel Cells

Thanasak Nilsonthi

High Temperature Corrosion Research Centre and Department of Materials and Production Technology Engineering, Faculty of Engineering.

Unmute Start Video Participants Chat Share Screen Record Ask for Help Reactions Apps

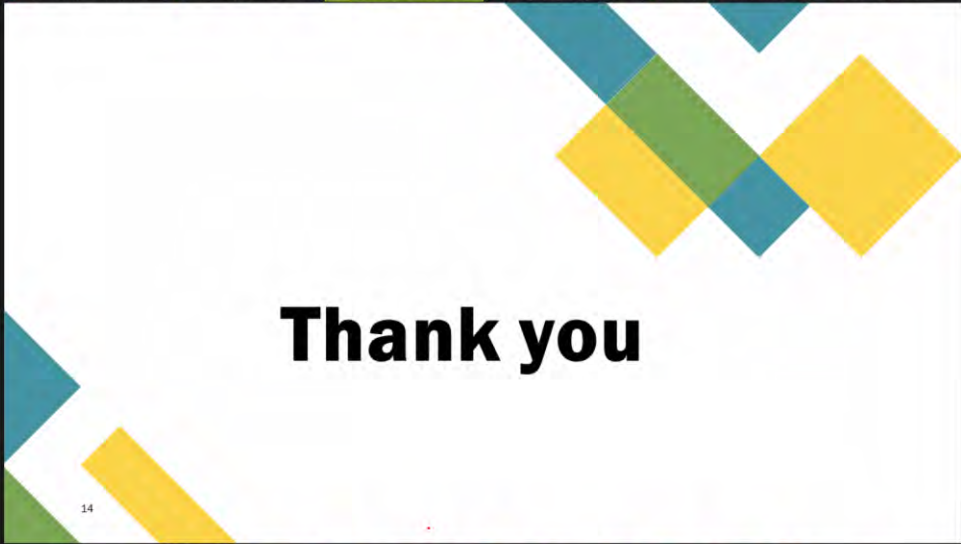
30°C 9:50 AM 8/5/2022

Zoom Meeting

Secretary : Nich... iss2022-27-Pan...

Secretary : Nichaphat Chairman-Malinee Sri... iss2022-22-Thanasak Nils... Co-Chair_ISS_Prapako... iss2022-27-Panuwat ISS2022-20_Marttin

Recording



Thank you

14

30°C 10:04 AM 8/5/2022

Iss2022-03

Recording

Timer pin host Iss2022-03-Jagadeesh Bh... ISS2022-05 Pakkawat ... ISS-2020-11-Kit...

2022 Research, Invention, & Innovation Congress (RIIC2022), Aug 4-5, 2022, Bangkok, Thailand

Paper ID iss2022-03

A comparative study of the anticorrosive response of *Tinospora cordifolia* stem extract for Al and Cu in biodiesel-based fuels

Jagadeesh Bhattarai
Central Department of Chemistry, Tribhuvan University, Kirtipur, Nepal
bhattarai_05@yahoo.com

Kumar Amgain, Besh Nath Subedi, Susan Joshi & Jagadeesh Bhattarai
*Central Department of Chemistry, Tribhuvan University, Kirtipur

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Recording

Secretary : Nich... iss2022_21-NEE... iss2022-07-Wil... Kriangsak Ketp...

Secretary : Nichaphat iss2022-03-Jagadeesh Bh... Chairman-Mailinee Sri... iss2022_21-NEELU iss2022-07-Wilaitip Kriangsak Ketpang

THANKS

► Nepal Academy of Science & Technology (NAST-Nepal): Faculty Research Grant 2-2075/76

FOR YOUR KIND ATTENTION

Click to add notes

After Break

Iss2022-11

Recording

iss2022_21-NEE...

KMUTNB INVENTION TO INNOVATION

RI² 2022

N AND S DUAL-DOPED MESOPOROUS CARBON NANOSTRUCTURE AS A HIGH PERFORMANCE AND DURABLE METAL FREE OXYGEN REDUCTION REACTION ELECTROCATALYST

Apichat Saejio, Kultida Kongpunyo, Nutsuda Buntao, Kittimaporn Nernprom, Khemika Boonkor, Kitisak Wichienwat, Noppavan Chanunpanich, Narong Chanlek, Sangaraju Shanmugam and Kriangsak Ketpang

FACULTY OF ENGINEERING AND TECHNOLOGY
FACULTY OF SCIENCE, ENERGY AND ENVIRONMENT
KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK RAYONG CAMPUS
DEPARTMENT OF ENERGY SYSTEMS SCIENCE, DAEGU GYEONGBUK INSTITUTE OF SCIENCE AND TECHNOLOGY (DGIST), KOREA

Zoom Meeting

04:31

Secretary : Nich...

Recording

THANK YOU!

For Attention

31°C

10:45 AM 8/5/2022

14:48 Secretary : Nich... ISS-2020-11-Kit... Kriangsak Ketp...

Recording



Understanding the performance degradation and recovery of passive direct ethanol fuel cell

Panuwat Ekdharmasuit, Jiratchaya Sapkitjakarn, and Phuritutphonng Sangwanangkool
Faculty of Science Energy and Environment
KMUTNB (Rayong Campus)

KMUTNB INVENTION TO INNOVATION
SciEE

1

Secretary : Nich... Athakorn Kriangsak Ketp... Akksatcha Dua...

Recording



Acknowledgments

- King Mongkut's University of Technology North Bangkok
- Faculty of Science, Energy and Environment (SCIEE), King Mongkut's University of Technology North Bangkok, Rayong Campus.

KMUTNB INVENTION TO INNOVATION
SciEE

23

Iss2022-04

Zoom Meeting

Secretary : Nich...
Secretary : Nichaphat | iss2022-27-Panuwat | Chairman-Malinee Sri... | Co-Chair_ISS_Prapako... | pin | host

Thank You

ETRI KMUTNB
4-5 AUGUST, 2022
RESEARCH, INVENTION AND
INNOVATION CONGRESS

Dr Ts Professor Dr Show Pau-Loke
University of Nottingham Malaysia (UNM)

31°C | Timer | 11:05 AM 8/5/2022

Zoom Meeting

Secretary : Nich... | iss2022-27-Pan... | Athakorn
Secretary : Nichaphat | Chairman-Malinee Sri... | Co-Chair_ISS_Prapako... | iss2022-27-Panuwat | Athakorn | pin

International Research Collaborators

Others:

Taiwan
New Zealand
United States
China
Japan
Vietnam

University of Nottingham
The University of Sheffield
MONASH University

31°C | Timer | 11:16 AM 8/5/2022

Recording

pin host ISS2022-05 Pakkawat Det... Pornthip Tabkosai iss2022_21-NEELU Par_Marttin

Pasting Property of Jasmine Rice Flour, Quality and Sensory Evaluation of Gluten-Free Rice Penne as Affected by Protein and Hydrocolloid Addition

Pakkawat Detchewa¹, Viboon Pongkanpai², Chutamas Maneewong³, Chanthima Phungamgoen⁴ and Anuchita Moongngarm⁵

¹ Department of Agro-Industry Technology and Management, Faculty of Agro-Industry, King Mongkut's University of Technology North Bangkok, Prachinburi Campus, Thailand
² Department of Food Science and Technology, Faculty of Innovative Agriculture and Fishery Establishment Project, Prince of Songkla University, Surat Thani Campus, Thailand
³ Department of Biotechnology, Faculty of Science, Maejo University, Chiang Mai, Thailand
⁴ Department of Food Technology, Faculty of Technology, Khon Kaen University, Khon Kaen, Thailand
⁵ Department of Food Science and Nutrition, Faculty of Technology, Mahasarakham University, Maha Sarakham, Thailand

Zoom Meeting - Presentation Room

You are viewing ISS2022-05 Pakkawat Detchewa's screen View Options

Secretary : Nich... 00:54

Recording

Secretary : Nichaphat Athakorn Co-Chair_ISS_Prapakorn... Par_Akksatcha Duangs...

Thank you for attention

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31°C กรุงเทพมหานคร

11:33 AM 8/5/2022

Leave Room

Recording

host Chairman-Málinee Sri... iss2022-07-Wilaitip Chawantorn Pornthip Tabko... Pornthip Tabkosai



The application of an analytic network process to select vegetarian food for chronic disease patients

Wilaitip Pomyota, Athakorn Kengpol, Preecha Rungsaksangmanee




¹Faculty of Engineering, Department of Industrial Engineering
²Advanced Industrial Engineering Management Systems Research Center,
Faculty of Engineering, Department of Industrial Engineering
³Infirmiry of Kasetsart University

4-5 August 2022
Research, Invention, and Innovation Congress
Bangkok, Thailand


05:43 Secretary : Nich... RI 2022 iss2022-07-Wilaitip pin host

Timer Secretary : Nichaphat Co-Chair ISS, Prapakorn



Recording




Thank you for your attention



Krabi, Thailand

Secretary : Nich...  iss2022-07-Wil... **14:55** 



Recording




Decision support system for consumer behavior of Elderly Chinese tourists on healthy beverages

Thanyathip Pichitkarnkar and Athakorn Kengpol

Unmute Start Video Participants 28 Chat Share Screen Record Ask for Help Reactions Apps [Leave Room](#)

04:14 Secretary : Nich...  

Recording



Acknowledgements

This research has received funding support from The National Science, Research and Innovation Fund (NSRF) (Grant No. KMUTNB-FF-65-05).

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Iss2022-22

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Par_Akksatcha... Athakorn

Chairman-Malinee Sri... iss2022_21-NEELU Par_Akksatcha Duangs... Athakorn Par_Pakkawat

2022 Research, Invention, and Innovation Congress (RI2C 2022)

Trends in Harnessing Energy from Waste Biomass: Pathways & Future Potential

NEELU RAINA
School of Biotechnology
Shri Mata Vaishno Devi University, Katra, INDIA

Unmute Start Video Participants 25 Chat 1 Share Screen Record Ask for Help Reactions Apps Leave Room

05:33 Secretary : Nich... iss2022-24 - tha... Iss2022-07-Wil...



Secretary : Nichaphat iss2022_21-NEELU Co-Chair_ISS_Prapako iss2022-24 - thanyathip iss2022-07-Wilaitip

Recording

ACKNOWLEDGEMENT

14

Secretary : Nich... 15:00 Par-Malinee Sri...
Secretary : Nichaphat Timer host Par-Malinee Sririyan... Iss2022-13-Pratchaya Mu... Co-Chair-Elizabeth Ja...
Recording



Effect of pepsin on antioxidant and antibacterial activity of protein hydrolysate from salted jellyfish (*Lobonema smithii* and *Rhopilema hispidum*) by-products


Presented by : Mr. Pratchaya Muangrod






Bio-Industrial Technology Program,
Department of Agro-Industrial, Food, and Environmental Technology,
King Mongkut's University of Technology North Bangkok, Thailand

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03:18 Secretary : Nich... Par-Malinee Sri...
Secretary : Nichaphat host Iss2022-13-Pratchaya Mu... Par-Malinee Sririyan... Co-Chair-Elizabeth Ja...
Recording

Acknowledgments



-  • **Assoc. Prof. Benjawan Thumthanaruk, Ph.D.**
Department of Agro-Industrial, Food and Environmental Technology, Faculty of Applied Science, KMUTNB
-  • **Sittiruk Roytrakul, Ph.D.**
Proteomics Research Laboratory, National Center for Genetic Engineering and Biotechnology (BIOTEC)
-  • **Benjamaporn Wonganu, Ph.D.**
Department of Biotechnology, Faculty of Applied Science, KMUTNB
-  • **Prof. Vilai Rungsardthong, Ph.D.**
Department of Agro-Industrial, Food and Environmental Technology, Faculty of Applied Science, KMUTNB
-  • **Assoc. Prof. Savitri Vatanyoopaissarn, Ph.D.**
Department of Agro-Industrial, Food and Environmental Technology, Faculty of Applied Science, KMUTNB
- **King Mongkut's University of Technology North Bangkok and National Science and Technology Development Agency, Thailand (Contract no. B.020-2563)**
- **National Research Council of Thailand through the NRCT Senior Research Scholar Program (Contract no. 814-2020)**

19

Secretary : Nich...   Iss2022-13-Prat... Par-Malinee Sri... **00:00** 

Recording





Influence of **extraction times** on physical and functional properties of **gelatin** from salted jellyfish by-products

Presented by : Mr.Wiriya Charoenchokpanich

Bio-Industrial Technology Program,
Department of Agro-Industrial, Food, and Environmental Technology,
King Mongkut's University of Technology North Bangkok, Thailand

1

04:45 Secretary : Nich...    Iss2022-13-Prat... 

Recording

Acknowledgement



-  • Assoc. Prof. Benjawan Thumthanaruk, Ph.D. Department of Agro-Industrial, Food and Environmental Technology, Faculty of Applied Science, KMUTNB
-  • Prof. Vilai Rungsardthong, Ph.D. Department of Agro-Industrial, Food and Environmental Technology, Faculty of Applied Science, KMUTNB
-  • Assoc. Prof. Savitri Vatanyoopaisarn, Ph.D. Department of Agro-Industrial, Food and Environmental Technology, Faculty of Applied Science, KMUTNB
-  • Sittiruk Roytrakul, Ph.D. Laboratory/Research Unit: National Center for Genetic Engineering and Biotechnology, National Science and Technology Development Agency
-  • Benjamaporn Wanganu, Ph.D. Department of Biotechnology, Faculty of Applied Science, KMUTNB

• King Mongkut's University of Technology North Bangkok and National Science and Technology Development Agency, Thailand (Contract no. B.021-2563)
• National Research Council of Thailand through the NRCT Senior Research Scholar Program (Contract no. 814-2020)




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Zoom Meeting

Secretary : Nich... iss2022-13-Prat...

Recording

A comparative study of conventional and supercritical carbon dioxide extraction methods for the recovery of bioactive compound from Lion's Mane mushroom (*Hericium erinaceus*)

Presented by : Miss Pinida Joradon
Coauthor : Professor Dr. Vilai Rungsardthong
 : Dr. Uracha Ruktanonchai

Department of Agro-Industrial, Food and Environmental Technology, Faculty of Applied Science, Food and Agro-Industrial Research Center, King Mongkut's University of Technology North Bangkok, Thailand

32°C 1:32 PM 8/5/2022

Zoom Meeting - Presentation Room

You are viewing iss2022-15-Pinida Joradon's screen

05:55 Secretary : Nich... View Options

Recording

Acknowledgement

Special thanks:

- o Assoc. Prof. Dr. Benjawan Thumthanaruka, Department of Agro-Industrial, Food and Environment, King Mongkut's University of Technology North Bangkok
- o Assoc. Prof. Dr. Savitri Vatanyoopaisarna, Department of Agro-Industrial, Food and Environment, King Mongkut's University of Technology North Bangkok
- o Assoc. Prof. Dr. Dutsadee Uttapap, Division of Biochemical Technology, School of Bioresources and Technology, King Mongkut's University of Technology Thonburi
- o Dr. Khomson Suttisintongb, National Nanotechnology Center, National Science and Technology Development Agency, Thailand Science Park
- o Dr. Tawin Iemprideeb, National Nanotechnology Center, National Science and Technology Development Agency, Thailand Science

Professor Dr. Vilai Rungsardthong, Department of Agro-Industrial, Food and Environment, King Mongkut's University of Technology North Bangkok (Supervisor)

Dr. Uracha Ruktanonchai, National Nanotechnology Center, National Science and Technology Development Agency, Thailand Science Park (Co-advisor)

o The scholarship from King Mongkut's University of Technology North Bangkok and National Science and Technology Development Agency, Thailand. Contract no. 024/2563

o The NRCT Senior Research Scholar Program Contract No.814-

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32°C 1:41 PM 8/5/2022

Secretary : Nich... 00:30

Recording

Bioactive compounds and antioxidant activity of Lion's Mane mushroom (*Hericium erinaceus*) from different growth periods

Presented by :Mr. Nattapat Tachabenjarong

Department of Agro-Industrial, Food and Environmental Technology, Faculty of Applied Science, Food and Agro-industrial Research Center, King Mongkut's University of Technology North Bangkok, Bangkok 10800, Thailand

04:44 Secretary : Nich... Par-Malinee Sri... iss2022-15-Pini...

Recording

Acknowledgements

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Department of Agro-Industrial, Food and Environment, Faculty of Applied Science, Food and Agro-Industrial Research Center, King Mongkut's University of Technology North Bangkok, Bangkok 10800, Thailand

Dr. Uracha Ruktanonchi
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Mr. Wutipong Raksawong
Managing Director, Fresh & Friendly Farm Co., Ltd.

- King Mongkut's University of Technology North Bangkok and National Science and Technology Development Agency, Thailand, Contract no. 012/2563
- NRCT Senior Research Scholar Program (Contract No. 814-2020)

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Iss2022-17

Recording

host | iss2022-17-Phuwana | Co-Chair- Elizabeth Ja... | iss2022-14-Wiriy Cha... | Par_Chutamas Manee... | iss2022-13-Prachaya ...

Investigation of Low-cost media for *Bacillus thuringiensis* subspecies *israelensis*

By Phuwana Mo-on,
Theophane Venard School of
Biotechnology, Assumption University
of Thailand

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04:35 | Timer | Secretary : Nich... | Secretary : Nichaphat | iss2022-17-Phuwana | ISS2022-16-Nat... | ISS2022-16-Nattapat | Co-Chair- Elizabeth Jayex... | Par-Malinee Sri... | Par-Malinee Sriariyan...

Thank you for your attention!!!

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Secretary : Nichaphat iss2022-18-Thani... iss2022-17_Phuwana ISS2022-16-Nattapat Co-Chair Elizabeth Ja... Par-Malinee Sriariyan...
Recording

KU FACULTY OF AGRO-INDUSTRY
DEPARTMENT OF BIOTECHNOLOGY

Optimization of Microwave-Assisted Extraction of Palm Kernel Cake Protein

Presented by Thanida Tungchaisin
Advisor: Assist. Prof. Kittipong Rattanaporn
Co-Advisor: Assist. Prof. Sudathip Sae-Tan

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Secretary : Nich... iss2022-17_Phu... ISS2022-16-Nat... Par-Malinee Sri...
Secretary : Nichaphat iss2022-18-Thani... iss2022-17_Phuwana ISS2022-16-Nattapat Co-Chair Elizabeth Ja... Par-Malinee Sriariyan...
Recording

KU FACULTY OF AGRO-INDUSTRY
DEPARTMENT OF BIOTECHNOLOGY

THANK YOU

for your attention

Secretary : Nich... **14:54** iss2022-17_Phu...
Secretary : Nichaphat Timer ISS2022-23 ANNE Co-Chair- Elizabeth Ja... iss2022-18=Thanida iss2022-17_Phuwana

Paddy straw: an economical substrate for oyster mushroom (*Pleurotus ostreatus*) cultivation

Anne Sahithi Somavarapu Thomas¹, Sona .A², Vinodhini Shanmugam², Marttin Paulraj Gundupalli^{3,4}, Malinee Sriariyanun^{3,4*}

¹School of Biosciences and Technology (SBST), Vellore Institute of Technology (VIT) Vellore, Tamilnadu, India
²Department of Biotechnology, D.K.M College for Women, Vellore, Tamilnadu, India
³Department of Chemical and Process Engineering, The Sirindhorn International Thai-German Graduate School of Engineering (TGGS), King Mongkut's University of Technology North Bangkok (KMUTNB), Bangkok, Thailand
⁴Biorefinery and Process Automation Engineering Center (BPAEC), King Mongkut's University of Technology North Bangkok (KMUTNB), Bangkok, Thailand



iSS 2022-23



W/5/2022

02:29 Secretary : Nich... iss2022-18=Thanida pin
Timer Secretary : Nichaphat ISS2022-23 ANNE Co-Chair- Elizabeth Jayex...

Paddy straw: an economical substrate for oyster mushroom (*Pleurotus ostreatus*) cultivation



Thank You! 

8/5/2022