

Acknowledgement

No: 040/ADPI-PkMOSA-6/III/2021

THE ASSOCIATION OF COMMUNITY SERVICE LECTURERS OF INDONESIA

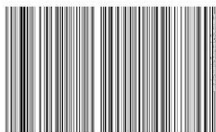
October 07- 11, 2021

This is to certify that:

Donna Imelda S.T., M. Si,

**has attended The International Seminar on Community
Empowerment for Sustainable Development**

and served as a Plenary Speaker



<http://adpi-indonesia.id/pkmonline/>

Padang, October 12, 2021

Chief Executive Committee



ASOSIASI DOSEN
Pengabdian kepada Masyarakat
INDONESIA

Dr. Ir. Suciana Wijirahayu, M.Pd.
NIDN.0331036603



UNIVERSITAS JAYABAYA
FAKULTAS TEKNOLOGI INDUSTRI
Teknik Elektro | Teknik Kimia | Teknik Mesin
TERAKREDITASI B



SURAT TUGAS

Nomor : 71.45.053/SRT TGS/KPK/S1/FTI-UJ/X/2021

Yang bertanda tangan di bawah ini :

Nama : Dr. Yeti Widyawati, S.T, M.Si
NIDN : 0330087201
Jabatan : Ketua Program Studi Teknik Kimia FTI-UJ

Dengan ini memberikan tugas kepada nama-nama dibawah ini :

No.	NIDN	NOPEG	NAMA DOSEN
1	0318017301	E.5991524	Donna Imelda, S.T, M.Si.
2	0012116502	E.5901157	Dr. Flora Elvistia F, M.Si.
3	0309036001	E.5891072	Ir. Lubena, M.T.

Untuk mengikuti kegiatan *International Seminar on Community Empowerment for Sustainable Development - PkM Online Series ADPI Batch 6* sebagai *Plenary Speaker* yang diselenggarakan oleh Asosiasi Dosen Pengabdian kepada Masyarakat (ADPI) pada tanggal 9-10 Oktober 2021 dengan topik "*Utilization of Eco Enzyme from Fruit Waste for Multipurpose Antimicrobial*"

Demikian surat tugas ini diberikan untuk digunakan sebagaimana mestinya, dan agar dapat dilaksanakan dengan penuh tanggung jawab. Atas perhatian dan kerjasamanya disampaikan terimakasih.

Jakarta, 9 Oktober 2021
Ketua Prodi Teknik Kimia S1



Dr. Yeti Widyawati, ST, M.Si

Arsip



THE ASSOCIATION OF COMMUNITY SERVICE LECTURERS OF INDONESIA (ACSLI)

Jl. Komp. Unand, Padang Besi, Kec Lubuk Kilangan, Kota Padang Sumatera Barat,

Email: info@adpi-indonesia.id, Fb: @AsosiasiDosenPKMIndonesia

WA: +6282386622140 Homepage: <https://www.adpi-indonesia.com>

Padang, 29 September 2021

Number : 015/ACSLI-PkMOSA-6/III/2021
Attachment : 3
Subject : Plenary Speaker Invitation

Plenary Speakers PkM OSA Batch 6
List Name- Attach

Dear Plenary Speakers PkM OSA Batch 6

Along with greetings and prayers, may we always be in the protection and guidance of Allah SWT in carrying out daily activities, amen.

Asosiasi Dosen PkM Indonesia (ADPI) or The Association of Community Service Lecturers of Indonesia (ACSLI) is a unifying association in service activities and improving the professionalism of lecturers. **ACSLI's** vision is to become the largest association in Southeast Asia in dedication and improvement of lecturer professionalism based on faith and devotion to God Almighty. Until now, **ACSLI's** membership has spread from Aceh to Papua with central (in Padang) and regional (in each province) management.

In implementing the Tri Dharma of Higher Education (Research and Community Service) and developing networks to improve human resources, we held PkM OSA Batch 6 on:

Day/Date : Saturday- Sunday, October 9-10, 2021
Time : 09.⁰⁰ WIB (Western Indonesian Time) – Finish
Application : Zoom.us (Meeting ID and Password will be informed later)
Title : International Seminar On 3 Continents Of "Cross-field Lecturer Community Service"
Theme : Community Empowerment for Sustainable Development

We hope that you will be pleased to attend and be the Plenary Speaker at the International Seminar.

We attach

1. Id Zoom
2. Rundown
3. Flyer
4. List Name- Plenary Speakers

Thus we submit this letter. We thank you for your attention.

Regards,

The Chief Executive Committee



Dr. Ir. Suciana Wijirahayu, M.Pd.
NIDN.0331036603

Zoom Meeting ID PkM OSA Batch 6

Hari	Waktu	Link Zoom
Saturday, October 9, 2021	09.00 AM – 05.00 PM	<p>Topic: INTERNATIONAL SEMINAR ON COMMUNITY EMPOWERMENT FOR SUSTAINABLE DEVELOPMENT</p> <p>Time: Oct 9, 2021 09:00 AM Jakarta</p> <p>Join Zoom Meeting https://us02web.zoom.us/j/86511981942?pwd=U2xJTGNybzI3QkQxUXlaTlozVDlydz09</p> <p>Meeting ID: 865 1198 1942 Passcode: 050134</p>
Saturday, October 10, 2021	09.00 AM – 05.00 PM	<p>Topic: INTERNATIONAL SEMINAR ON COMMUNITY EMPOWERMENT FOR SUSTAINABLE DEVELOPMENT</p> <p>Time: Oct 10, 2021 09:00 AM Jakarta</p> <p>Join Zoom Meeting https://us02web.zoom.us/j/82744858148?pwd=MW9Ha2p6STk5a0h5NDINMFIKWEPsUT09</p> <p>Meeting ID: 827 4485 8148 Passcode: 518997</p>

RUNDOWN
ASOSIASI DOSEN PkM INDONESIA (ADPI)/
COMMUNITY SERVICE ACTIVITIES ONLINE SERIES ACSLI
(PkM OSA) BATCH 6
INTERNATIONAL SEMINAR ON 3 CONTINENTS OF
“CROSSFIELD LECTURER COMMUNITY SERVICE”
Thursday-Sunday, 7-11 October 2021

Thursday-Friday, October 7th- 8th, 2021

Time (Jakarta)	Activities
08.30 – 15.00	Executive Committee & Plenary Speaker

Saturday, October 9th, 2021

Time (Jakarta)	Activities	
08.30 – 09.00	Registration – (<i>admission time</i>)	
09.00 – 09.10	Opening by Moderator (Loly Novita, M.IT.)	
09.10 – 09.20	Singing Indonesia Raya	
09.20 – 10.00	Opening Speechs 1. Prof. Dr. M. Zaim, M. Hum (President of The Association of Community Service Lecturers of Indonesia (ACSLI) 2. Dr. Ir. Tri Rismaharini, M.T (Minister of Social Affairs of the Republic of Indonesia)	
10.00 - 10.30	Questions and Answers	
10.30 - 11.30	Keynote Speakers 1. Prof. Noel Scott (The University of Sunshine Coast, Australia) talk about “Community Empowerment for Sustainable Development” 2. Prof. Yenni Rozimela, Ph.D. (Padang State University, Indonesia)	
11.30 - 12.00	Questions and Answers	
12.00 – 13.00	Break	
	Session 1	Session Chair 1 : Ahmad Jailani, M.Pd.
	Plenary 1 Dr. Nurul Fadhillah, S.Pd., M.Hum. DI Aceh	Effective and Fun English Learning Using Smartphone Applications
	Plenary 2	Google Classroom Digital Training for Methodist Group Teachers in North Sumatera, Indonesia

13.00-15.30	Dr. Hendra, S.E., M.Si North Sumatra	
	Plenary 3 Lisa Suhayati, S.S., M.Pd. Banten	Kahoot: A Fun Way to Engage Students in Synchronous Learning During Covid-19 Pandemic
	Plenary 4 Dr. Merri Sri Hartati, M.Pd. Bengkulu	Parenting of Sexual Education for Children in Sekolah Langit Biru
	Plenary 5 Dr. Dian Cita Sari, M.Pd. Jambi	Sustainable development
	Plenary 6 Dr. Ir. Suciana Wijirahayu, M.Pd. DKI Jakarta	Fostering Literacy and Creativity through Virtual Strategy Training during Covid - 19 Pandemic
	Plenary 7 Dr. Amin Kuncoro, M.M. Central Java	Mix method
	Plenary 8 M. Imelda Kusumastuty, S.S., M.A. DI Yogyakarta	Online Tools for English Academic Writing
	Plenary 9 Dr. Nidia Sofa, S.PdI., M.Pd. West Java	Effective Communication Training for Village Officials
	Plenary 10 Elly Dwi Masita, MPH East Java	Community empowerment through the management of resilience houses in suburban communities
16.00-18.00	Session 2	Session Chair 2: Syamsiah Depalina Siregar, M.Pd.
	Plenary 1 Santiana, S.S.,M.Pd. West Java	Optimizing LMS Canvas for Interactive Learning
	Plenary 2 Ahmad Jailani, M.Pd.I. Riau	YouTube as an Alternative Medium for Online Learning in Rural Areas.
	Plenary 3 Resista Vikaliana, S.Si., M.M. DKI Jakarta	Building A Consumers Awareness of Traceability Importance in Food Supply Chain

	Plenary 4 Ahmad Rossydi, S.Pd., M.Pd. South Sulawesi	Hybrid Learning in Vocational Higher Education
	Plenary 5 Dr. Abdul Gafur Marzuki Central Sulawesi	Applying Grammarly App for Improving Your Manuscript Writing
	Plenary 6 Yosa Novia, M.Pd. West Sumatra	Improving the professionalism of lecturers through community service activity during the covid-19 pandemic
	Plenary 7 Dr. Ruty Jacoba Kapoh, M. Pd. North Sulawesi	Japanese Training for Nursing Students Participating in "Internship" Program at the Japanese Nursing Homes
	Plenary 8 Nurul Hidayah, SKM., M.Kes. South Kalimantan	Health Education During the Pandemic: Teenagers and the COVID-19 Vaccine
	Plenary 9 Afriansyah S. Psi. S. Sos. M. Si. M. H. West Papua	Community Development in Processing West Papuan Sago
	Plenary 10 Supriyani, M.Pd West Java	The Effects of Teaching Techniques and Learning Styles on Students' Speaking Skills

Sunday, October 10th, 2021

Time (Jakarta)	Activities	
08.40 – 09.00	Registration – (<i>admission time</i>)	
09.00 – 09.10	Opening by Moderator (Santiana, S.S., M.Pd.)	
09.10 – 09.30	Opening Speechs Prof. Dr. Abd. Rahman A.Ghani, M.Pd Vice Rector 1 Universitas Muhammadiyah Prof. Dr. Hamka	
09.30 – 10.30	Keynote Speakers 1. Yahya O.M hando, BA., MA.MC (Muslim University of Morogoro, Tanzania) talk about “"Media and Development: The use of Social media to facilitate Youth empowerment" 2. 2. dr. Dito Anurogo, M.Sc. Taipei Medical University, Taiwan talk about “Global Village 5.0”	
10.30-11.00	Questions and Answers	
	Session 3	Session Chair 3 :

11.00-12.30		Dr. Afdaleni
	Plenary 1 Itat Tatmimah, S.E, M.Si West Java	easy way to understand basic accounting
	Plenary 2 Lia Rosida, S.Pd.,M.Dev.St West Nusa Tenggara	The Use of Participatory Approach in Bamboo Ecotourism Planning and Development for Rural Community in Sembalun
	Plenary 3 Ana Susanti Yusman, M.Eng. West Sumatra	Creative Mathematics Literacy for the Students of SMK M01 Padang
	Plenary 4 Pranoto, S.Pd, M.Par. Central Java	Wanurejo Borobudur Tourism Village Heading for Business Revival after Covid 19 Pandemic
	Plenary 5 Resdilla Pratiwi,S.PdI, M.Hum. North Sumatra	English Reading Training by Using Pelmanism Games for Intermediate Level
	Plenary 6 Donna Imelda S.T., M.Si. DKI Jakarta	Utilization of Eco-Enzyme from Fruit Waste for Multi Purpose Cleaner
	Plenary 7 Witri Elvianti, S.IP, M.A. West Java	Youth Empowerment to Maximizing Sustainable Tourism Potentials and Creative Economy in Bekasi Regency
12.30 – 13.30	Break	
	Session 4	Session Chair 4 : Dr. Erizar
	Plenary 1 Sherly Franchisca, S.Pd, M.Pd. West Sumatra	Improving Hotel Employees English Skill
	Plenary 2 Sartika Dewi Harahap, M.Hum. North Sumatra	FLASH (Fun Learning English) with Pictionary for Enhancing Vocabulary on Underdevelop Distrik Students
	Plenary 3 Surayyal Hizmi, M.Sc., NRM. West Nusa Tenggara	The implementation of sustainable concept in vocational higher education

13.30 – 15..30	Plenary 4 Eka Melati, S.Pd, M.Pd. Riau	Wordwall's Optimization in Teaching English Creatively during Pandemic Era of Covid 19
	Plenary 5 Trie Nadilla,M.Si., Ak, CA, CAPF Aceh	The Role Digitazation and Accounting in MSMEs During The Pandemic
	Plenary 6 Ryan Firdiansyah Suryawan, SE., MM., CPHCM DKI Jakarta	Some Tricks on Bussiness
	Plenary 7 Dr. Flora Elvistia Firdaus, M.S. DKI Jakarta	Anticipatory The Hazardous Chemicals of Food Packaging by The Safest Natural Films
	Plenary 8 Pwee Leng, S.E., S.H., M.Kom., Dipl. IFF., CFP East Java	The Importance of Financial Literacy in Managing an Enterprises (A Case Study on SMEs in East Java)
	Plenary 9 Titi Indahyani S.Sn, M.M, Ph.D. DKI Jakarta	Souvenir Design Development Program In Tourism Village
	Plenary 10 Dr. Gusti Setiavani, STP. MP North Sumatra	How to execute Oyster Mushroom
15.30-16.00	Break	
16.00-17.45	Session 5	Session Chair: Sherly Franchisca, S.Pd., M.d.
	Plenary 1 Puji Wahyu Mulyani, S.P, M.Sc. North Sumatra	Sustainable Arabica Coffee Cultivation Training for Farmers in Simalungun Regency
	Plenary 2 Dr. Desvian Bandarsyah, M.Pd. DKI Jakarta	Primary Education Challenges In Digital Era: Innovation, Adaptation, or Revolution
	Plenary 3 Dr. Henry Kurniawan, S.Si., M.Stat. Lampung	Budikdamber education in the community
	Plenary 4 Agista Nidya Wardani, M.A.	Autonomus and Cross-Community Services among Indonesian Lecturers

	East Java	
	Plenary 5 Dr. Prantasi Harmi Tjahjanti S.Si, M.T. East Java	The Use of Gravel, Silica, Sand, Mangnese Zeolite, and Activated Carbon for Filtering Clear Water into Ready to Drink Water
	Plenary 6 Rona Rossa, S.S, M.Pd. West Sumatra	Implementing a Problem-based learning model to improving lecturers professionalism in integrating character values
	Plenary 7 Christianingrum, S.Pd.,M.M. Bangka Belitung	Commercialization Assistance for business groups through product commercialization, Pirt Licensing and preparation for halal certification
	Plenary 8 Yusawinur Barella, M.Pd. West Kalimantan	E-book Creator To Enrich Teachers Professionalism In Technology
17.45 – 18.00	Closing by Chief Executive Committee	

Monday, October 11th, 2021

Time (Jakarta)	Activities
08.30 – 15.00	Executive Committee and Team



<http://adpi-indonesia.id/pkmonline/>

PkM Online Series ADPI Batch 6

THE ASSOCIATION OF COMMUNITY SERVICE LECTURERS OF INDONESIA INTERNATIONAL SEMINAR ON COMMUNITY EMPOWERMENT FOR SUSTAINABLE DEVELOPMENT

Welcoming



Dr. Ir. Tri Rismaharini, M.T

Minister of Social Affairs of the Republic of Indonesia

Opening Speech



Prof. Dr. M. Zaim, M.Hum

President of the Association of
Community Service Lecturers of Indonesia

Keynote Speakers



Prof. Noel Scott, Ph.D

The University of Sunshine Coast, Australia



Prof. Yenni Rozimela, Ph.D.

Padang State University, Indonesia

FREE

Event: Saturday-Sunday
9 - 10 October 2021
Time: 09.00 AM - 5.00 PM
(Western Indonesia Time)

Live on :



PLENARY SPEAKERS



Dr. Nurul Fadhilah, S.Pd., M.Hum.

IAIN Lhokseumawe
Editor of ADPI DI Aceh



Dr. Hendra, SE, M.Si

Politeknik Wilmer Bisnis Indonesia
Editor of ADPI North Sumatra



Yosa Novia, M.Pd

UPI Mptk Padang
Reviewer of ADPI West Sumatra



Ahmad Jallani, M.Pd.I

STAN Bengkulu
Reviewer of ADPI Riau



Dr. Merri Sri Hartati, M.Pd.

Universitas Muhammadiyah Bengkulu
Editor of ADPI Bengkulu



Dr. Ir. Suciana Wijirahayu, M.Pd.

Universitas Muhammadiyah Prof. DR. HAMKA
Editor of ADPI DKI Jakarta



Dr. Dian Citra Sari M.Pd

Universitas Islam Negeri
Editor of ADPI Jambi



Nurul Hidayah, SKM., M.Kes

Universitas Sari Mulia
Coordinator of ADPI South Kalimantan



Dr. Amlin Kuncoro, MM

ITS Semarang
Editor of ADPI Central Java



Afransyah S. Psi. S. Sos. M. SI. M. H

Politeknik Pembangunan Pertanian Matokan
Coordinator of ADPI West Papua



Lisa Suhayati, S.S., M.Pd.

Universitas Pematang
Reviewer of ADPI Banten



M. Imelda Kusumastuty, S.S., M.A

STBA UJA Yogyakarta
Secretary of ADPI D. Yogyakarta



Ely Dwi Masita, MPH

Universitas Nahdlatul Ulama Surabaya
Reviewer of ADPI East Java



Santiana, S.S., M.Pd.

Universitas Siliwangi
Reviewer of ADPI West Java



Yusawinur Barella, M.Pd

Universitas Tanjungpura
Reviewer of ADPI West Kalimantan



Lia Rosida, S.Pd., M.Dev.St

Sekolah Tinggi Pariwisata Mataram
Reviewer of ADPI NTB



Ahmad Rosyidi, S.Pd., M.Pd.

Politeknik Penerbangan Makassar
Reviewer of ADPI South Sulawesi



Christianingrum, S.Pd., M.M

Universitas Bangka Belitung
Secretary of ADPI Bangka Belitung



Dr. Abdul Gafur Marzuki.

UIN Datokarama Palu
Editor of ADPI Central Sulawesi



Dr. Ruty Jacoba Kapoh, M. Pd.

Universitas Negeri Manado
Secretary of ADPI North Sulawesi

FACILITIES

- 102 Hour Certificate
- Invitation + Flyer
- Materials
- International/National Networking
- Voucher

CONTACT PERSON

Khidayatul M (+62 852-7181-0380)
Marhamah (+62 852-6370-2402)
Pretty Elisa AN (+62 823-7672-0006)

REGISTRATION

<https://bit.ly/RegistrationPkMOSAB6th>



www.adpi-indonesia.id



Asosiasi Dosen PKM Indonesia



@asosisidosenpkmindonesia



0823 8662 2140



<http://adpi-indonesia.id/pkmonline/>

PkM Online Series ADPI Batch 6

**THE ASSOCIATION OF COMMUNITY SERVICE LECTURERS OF INDONESIA
INTERNATIONAL SEMINAR ON COMMUNITY EMPOWERMENT FOR SUSTAINABLE DEVELOPMENT**

Welcoming



Dr. Ir. Tri Rismaharini, M.T

Minister of Social Affairs of the Republic of Indonesia



Prof. Dr. Abd. Rahman A.Ghani, M.Pd

Vice Rector 1 Universitas Muhammadiyah
Prof. DR. Hamka

Keynote Speakers



Yahya O.M hando, BA., MA.MC

Muslim University of Morogoro, Tanzania



dr. Dito Anurogo, M.Sc., Ph.D (student)

Taipei Medical University, Taiwan

FREE

Event: Saturday-Sunday
9 - 10 October 2021
Time: 09.00 AM - 5.00 PM
(Western Indonesia Time)

Live on :



PLENARY SPEAKERS



Trle Nadilla, M.Si, Ak, CA, CAPF

IAIN Lhokseumawe
Reviewer of ADPI Di Aceh



Ryan Firdiansyah Suryawan, SE., MM., CPHCM

Sekolah Tinggi Penerbangan Aviast
Reviewer of ADPI DKI Jakarta



Dr. Flora Elvistia Firdaus, M.Si

Universitas Jayabaya
Editor of ADPI DKI Jakarta



Supriyani, M.Pd

STKIP Al Amin Indramayu
Reviewer of ADPI West Java



Pwee Leng, S.E., S.H., M.Kom., Dipl. IFF., CFP®

Universitas Kristen Petra
Reviewer of ADPI East Java



Titi Indahyani S.Sn, M.M, Ph.D

Rina Nusantara University
Editor of ADPI DKI Jakarta



Dr. Gusti Setiawati, STP, MP

Polbangtan Medan
Editor of ADPI North Sumatra



Puji Wahyu Mulyani, S.P., M.Sc.

Politeknik Pembangunan Pertanian Medan
Reviewer of ADPI North Sumatra



Dr. Desvian Bandarsyah, M.Pd

Universitas Muhammadiyah Prof. Dr. Hamka
Editor of ADPI DKI Jakarta



Agista Nidya Wardani, M.A

Universitas Muhammadiyah Malang
Reviewer of ADPI East Java



Dr. Prantasi Harmi Tjahjanti, S.Si., MT.

Universitas Muhammadiyah Sidoarjo
Editor of ADPI East Java



Dr. Henry Kurniawan, S.Si., M.Stat.

Politeknik Negeri Lampung
Editor of ADPI Lampung

FACILITIES

- 102 Hour Certificate
- Invitation + Flyer
- Materials
- International/National Networking
- Voucher

CONTACT PERSON

Khidayatul M (+62 852-7181-0380)
Marhamah (+62 852-6370-2402)
Pretty Elisa AN (+62 823-7672-0006)

REGISTRATION

<https://bit.ly/RegistrationPkMOSAB6th>



www.adpi-indonesia.id



Asosiasi Dosen PKM Indonesia



@asosisidosenpkmindonesia



0823 8662 2140



<http://adpi-indonesia.id/pkmonline/>

PkM Online Series ADPI Batch 6

**THE ASSOCIATION OF COMMUNITY SERVICE LECTURERS OF INDONESIA
INTERNATIONAL SEMINAR ON COMMUNITY EMPOWERMENT FOR SUSTAINABLE DEVELOPMENT**

Welcoming



Dr. Ir. Tri Rismaharini, M.T

Minister of Social Affairs of the Republic of Indonesia

Opening Speech



Prof. Dr. Abd. Rahman A. Ghani, M.Pd

Vice Rector 1 Universitas Muhammadiyah
Prof. DR. Hamka

Keynote Speakers



Yahya O.M. Hando, BA., MA.MC

Muslim University of Morogoro, Tanzania



Dr. Dito Anurogo, M.Sc., Ph.D (student)

Taipei Medical University, Taiwan

FREE

Event: Saturday-Sunday
9 - 10 October 2021
Time: 09.00 AM - 5.00 PM
(Western Indonesia Time)

Live on :



PLENARY SPEAKERS



Resista Vikaliana, S.Si, MM

Institut Siliami
Coordinator of ADPI DKI Jakarta



Itat Tatmimah, S.E, M.Si

Universitas Muhammadiyah Cirebon
Reviewer of ADPI West Java



Ana Susanti Yusman, M.Eng

Univ. Muhammadiyah Sumatera Barat
Reviewer of ADPI West Sumatra



Pranoto, Spd., MPar

STIEPARI Semarang
Reviewer of ADPI Central Java



Resdilla Pratiwi, S.Pd.I., M.Hum

STAIN Mandailing Natal
Reviewer of ADPI North Sumatera



Donna Imelda S.T., M. Si,

Universitas Jayabaya
Reviewer of ADPI DKI Jakarta



Witri Elvianti, S.IP., MA

Universitas Presiden
Reviewer of ADPI West Java



Sherly Franchisca, S.Pd., M.Pd.

Universitas Ekasakti
Reviewer of ADPI West Sumatera



Sartika Dewi Harahap, M.Hum

STAIN Mandailing Natal
Reviewer of ADPI North Sumatra



Surayyal Hizmi, M.Sc., NRM

Politeknik Pariwisata Lombok
Reviewer of ADPI NTB



Eka Melati, S.Pd, M.Pd

AMIK Mitra Gama
Financial Officer of ADPI Riau



Dr. Nidia Sofa, S.Pd.I, M.Pd

Politeknik Negeri Jakarta
Editor of ADPI West Java



Rona Rossa, S.S., M.Pd

Universita Adzra
Reviewer of ADPI West Sumatra

FACILITIES

- 102 Hour Certificate
- Invitation + Flyer
- Materials
- International/National Networking
- Voucher

CONTACT PERSON

Khidayatul M (+62 852-7181-0380)
Marhamah (+62 852-6370-2402)
Pretty Elisa AN (+62 823-7672-0006)

REGISTRATION

<https://bit.ly/RegistrationPkMOSAB6th>



www.adpi-indonesia.id



Asosiasi Dosen PKM Indonesia



@asosisidosenpkmindonesia

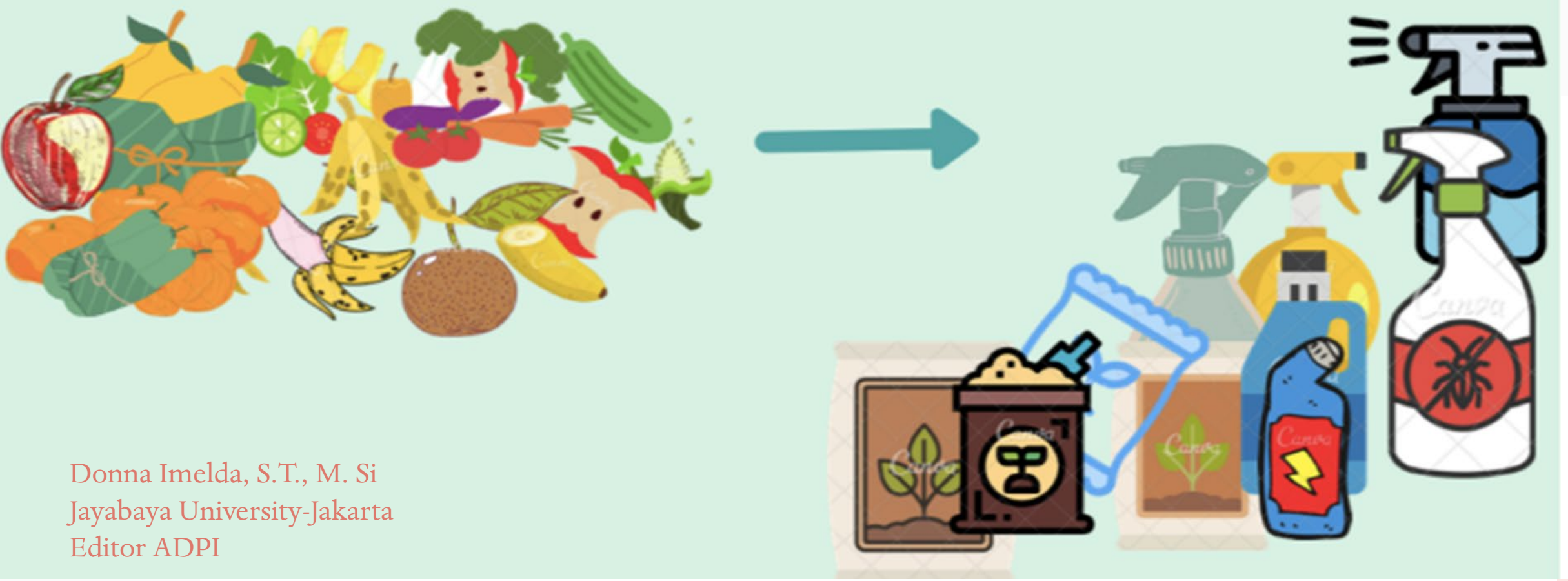


0823 8662 2140

Plenary Speakers of PkM Batch 6

No	Name	Intitution	Tittle of presentation
1	Resista Vikaliana, S.Si. MM	Institut Stiami	Building A Consumers Awareness of Traceability Importance in Food Supply Chain
2	Santiana, S.S.,M.Pd.	Universitas Siliwangi	Optimizing LMS Canvas for Interactive Learning
3	Dr.Amin Kuncoro,MM	ITB SEMARANG	Mix method
4	Dr. Ir. Suciana Wijirahayu, M.Pd.	Universitas Muhammadiyah Prof. DR. HAMKA	Fostering Literacy and Creativity through Virtual Strategy Training during Covid - 19 Pandemic
5	Itat Tatmimah, S. E, M. Si	Universitas Muhammadiyah Cirebon	easy way to understand basic accounting
6	Nurul Hidayah, SKM., M.Kes	Universitas Sari Mulia	Health Education During the Pandemic: Teenagers and the COVID-19 Vaccine
7	Ahmad Jailani, M.Pd.I	STAIN Bengkalis	YouTube as an Alternative Medium for Online Learning in Rural Areas.
8	Dr. Hendra,SE,M.Si	Politeknik Wilmar Bisnis Indonesia	Google Classroom Digital Training for Methodist Group Teachers in North Sumatera, Indonesia
9	Ana Susanti Yusman, M.Eng	Univ.Muhammadiyah Sumatera Barat	Literasi Matematika kreatif bagi siswa SMK M01 Padang
10	PRANOTO, SPd., MPar	STIEPARI Semarang	Wanurejo Borobudur Tourism Village Heading for Business Revival after Covid 19 Pandemic
11	Resdilla Pratiwi,S.Pd.I.,M.Hum	STAIN Mandailing Natal	English Reading Training by Using Pelmanism Games for Intermediate Level
12	Ahmad Rossydi, S.Pd., M.Pd.	Politeknik Penerbangan Makassar	Hybrid Learning in Vocational Higher Education
13	Donna Imelda S.T., M. Si,	Universitas Jayabaya	Utilization of Eco-Enzyme from Fruit Waste for Multi Purpose Cleaner
14	M. Imelda Kusumastuty, S.S., M.A.	STBA LIA Yogyakarta	Online Tools for English Academic Writing
15	Witri Elvianti, S.IP., MA	Universitas Presiden	Youth Empowerment to Maximizing Sustainable Tourism Potentials and Creative Economy in Bekasi Regency
16	Lia Rosida, S.Pd.,M.Dev.St	Sekolah Tinggi Pariwisata Mataram	The Use of Participatory Approach in Bamboo Ecotourism Planning and Development for Rural Community in Sembalun
17	Lisa Suhayati, S.S., M.Pd.	Universitas Pamulang	Kahoot: A Fun Way to Engange Students in Synchronous Learning During Covid-19 Pandemic
18	Sherly Franchisca, S.Pd., M.d.	Universitas Ekasakti	Improving Hotel Employees English Skill
19	Sartika Dewi Harahap,M.Hum.	STAIN Mandailing Natal	FLASH (Fun Learning English) with Pictionary for Enhanching Vocabulary on Underdevelop Distrik Students
20	Dr. Nurul Fadhillah, S.Pd., M.Hum.	IAIN Lhokseumawe	Effective and Fun English Learning Using Smartphone Applications
21	Surayyal Hizmi, M.Sc., NRM.	Politeknik Pariwisata Lombok	The implementation of sustainable concept in vocational higher education
22	Dr. Abdul Gafur Marzuki	UIN Datokarama Palu	Applying Grammarly App for Improving Your Manuscript Writing
23	Dr. Merri Sri Hartati, M.Pd.	Universitas Muhammadiyah Bengkulu	Parenting of Sexual Education for Children in Sekolah Langit Biru
24	Eka Melati, S.Pd., M.Pd.	AMIK Mitra Gama	Wordwall's Optimization in Teaching English Creatively during Pandemic Era of Covid 19
25	Dr. Nidia Sofa, S.Pd.I, M.Pd	Politeknik Negeri Jakarta	Effective Communication Training for Village Officials
26	Trie Nadilla,M.Si,Ak,CA, CAPF	IAIN Lhokseumawe	The Role Digitazation and Accounting in MSMEs

			During The Pandemic
27	Ryan Firdiansyah Suryawan, SE., MM., CPHCM	sekolah tinggi penerbangan aviasi	Trik-trik dalam bisnis
28	Dr. Dian Cita Sari, M.Pd.	Uin	Sustainable development
29	Elly Dwi Masita.,MPH	Universitas Nahdlatul Ulama Surabaya	Community empowerment through the management of resilience houses in suburban communities
30	Dr Flora Elvistia Firdaus, M.Si	Universitas Jayabaya	Anticipatory The Hazardous Chemicals of Food Packaging by The Safest Natural Films
31	Pwee Leng, S.E., S.H., M.Kom., Dipl. IFF., CFP®	Universitas Kristen Petra	The Importance of Financial Literacy in Managing an Enterprises (A Case Study on SMEs in East Java)
32	Supriyani, M.Pd	STKIP Al Amin Indramayu	The Effects of Teaching Techniques and Learning Styles on Students' Speaking Skills
33	Dr. Ruty Jacoba Kapoh, M. Pd.	UNIVERSITAS NEGERI MANADO	Pelatihan Bahasa Jepang pada Mahasiswa Keperawatan Peserta Program "Internship" di Panti Jompo Jepang
34	Titi Indahyani S.Sn, M.M, Ph.D	Bina Nusantara University	Souvenir Design Development Program In Tourism Village
35	Dr. Gusti Setiavani, STP. MP	Polbangtan Medan	Pengolahan Jamur Tiram
36	Puji Wahyu Mulyani, S.P., M.Sc.	Politeknik Pembangunan Pertanian Medan	Pelatihan Budidaya Tanaman Kopi Arabika Berkelanjutan kepada Petani di Kabupaten Simalungun
37	Dr. Desvian Bandarsyah, M.Pd.	Universitas Muhammadiyah Prof. Dr. Hamka	Primary Education Challenges In Digital Era: Innovation, Adaptation, or Revolution
38	Yosa Novia, S.Pd, M.Pd	UPI YPTK Padang	Improving the professionalism of lecturers through community service activity during the covid-19 pandemic
39	Rona Rossa, S.S, M.Pd	Universitas Adzkia	Problem-Based Learning is An Effective Method in Enhancing Good Character
40	Agista Nidya Wardani, M.A	Universitas Muhammadiyah Malang	Autonomus and Cross-Community Services among Indonesian Lecturers
41	Dr.Dian Cita Sari M.Pd	Uin	Sustainable Education for The Future
42	Dr. Prantasi Harmi Tjahjanti,S.Si.,MT.	Universitas Muhammadiyah Sidoarjo	The Use of Gravel, Silica, Sand, Mangnese Zeolite, and Activated Carbon for Filtering Clear Water into Ready to Drink Water
43	Christianingrum, S.Pd.,M.M	Universitas Bangka Belitung	Commercialization Assistance for business groups through product commercialization, Pirt Licensing and preparation for halal certification
44	YUSAWINUR BARELLA, M.PD	UNIVERSITAS TANJUNGPURA	EBOOK CREATOR TO ENRICH TEACHERS PROFESSIONALISM IN TECHNOLOGY
45	Dr. Henry Kurniawan, S.Si., M.Stat.	Politeknik Negeri Lampung	Budikdamber education in the community



Donna Imelda, S.T., M. Si
Jayabaya University-Jakarta
Editor ADPI

Utilization of Eco Enzyme from Fruit Waste for Multipurpose Antimicrobial

International Seminar on Community Empowerment for Sustainable Development
October, 9-10th 2021

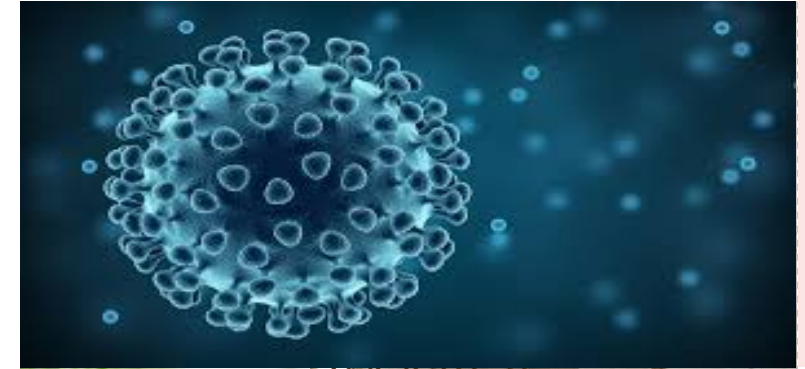


Introduction

- In the new normal era, due to the COVID-19 pandemic, public awareness of personal hygiene is increasing, the use of household health products, especially cleaning products, is increasingly being used.
- Common active ingredients in products on the market, rely on chemicals, such as ethanol, benzalkonium chloride, and triclosan as antibacterial agents.
- Fruit peel is organic waste that is mostly produced in households and can be used as raw material for making eco enzyme liquid.
- Eco enzyme liquid from fruit peels contains potential active agents as an alternative of antibacterial agents.

Antimicrobial

- An antimicrobial is an agent that kills microorganisms or stops their growth.
- The main classes of antimicrobial agents are:
 - Disinfectants, is a chemical substance or compound used to inactivate or destroy microorganisms on inert surfaces.
 - Antiseptics, is an antimicrobial substance or compound that is applied to living tissue/skin to reduce the possibility of infection, sepsis, or putrefaction.
 - Antibiotics, is a type of antimicrobial substance active against bacteria, which destroy microorganisms within the body. It is the most important type of antibacterial agent for fighting bacterial infections





Eco Enzyme

- Eco enzyme is a multipurpose liquid that is produced from the fermentation of organic waste (fruit peels, vegetable scraps)
- The disinfectant property inside an eco enzyme is due to the alcohol and/or acetic acid content in this liquid.
- Alcohol (ethanol) and/or acetic acid are produced by the metabolic process of bacteria that are naturally present on fruit or vegetable scraps.
- In the making of eco enzyme, either alcohol, acetic acid, or both is produced, depending on the type of microorganisms that are present on the fruit or vegetable scrap. Both substance has a disinfectant property.



Eco-Enzyme

- As a disinfectant, eco enzyme can replace most cleaning liquids for multiple household products, even to purify air from airborne bacteria, due to its ability to kill bacteria and fungus.
- Other than to reduce the usage of chemical based cleaning liquids, eco enzyme also has its own economic value because it reduces the expense from buying commercial cleaning products.
- Furthermore, the nutritions that are contained inside the fruit and vegetable residue from processing an eco enzyme can be utilised as fertilizers.

Kind of Fruit to Make Eco Enzyme



Papaya (*Carica papaya* L)

Enzyme: Papain and
Chymopapain.



**Pineapple (*Ananas
comosus*)**

Enzyme: Bromelain



**Mango (*Mangifera
indica*)**

Enzyme: Amilase



Orange (*Citrus sinensis*)

Enzyme: Ascorbic Acid
Oxidase

Previous Studies

- Numerous previous studies shown the synergistic effect of the two eco enzymes increases the potency of their antimicrobial activity against a wide range of bacteria [1].
- Eco enzyme derived from pineapple (*Ananas comosus*) and orange (*Citrus aurantium* L.) peels have been shown to have antimicrobial as well as anti-inflammatory properties [2].
- The high content of polyphenolic compounds and flavonoids in pineapple and orange peel extracts are found to be responsible for their excellent antimicrobial and antioxidant activities [3].

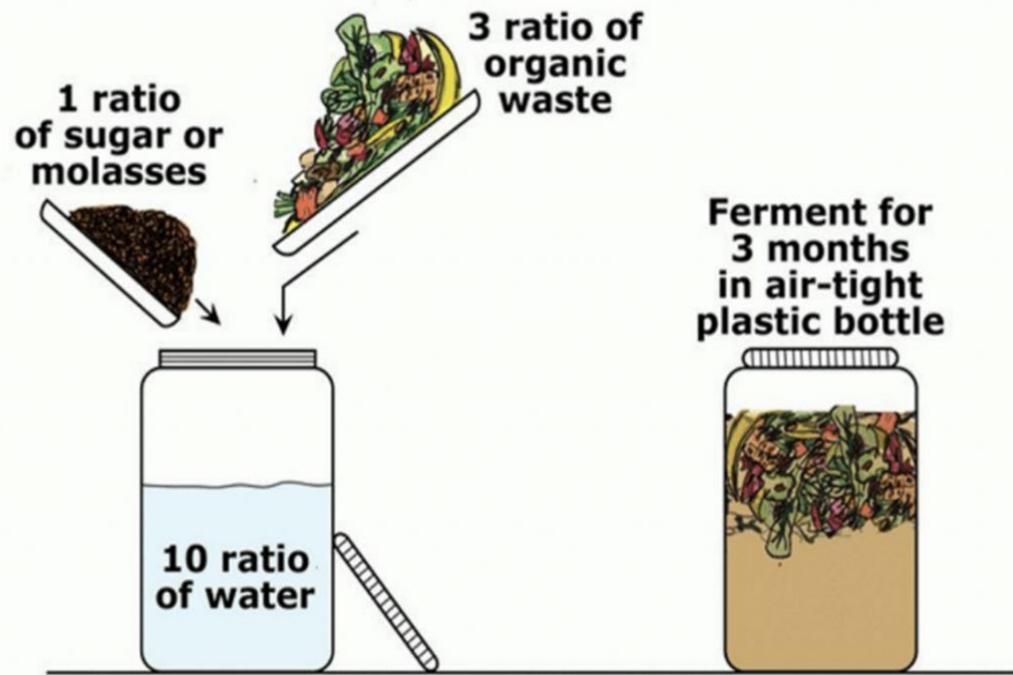


Materials and Tools



- ♦ Airtight Container (plastic container or bottle or plastic jar)
- ♦ Knife to make fruit peel into small pieces.
- ♦ Balance Scale
- ♦ Beaker or Measuring Cup
- ♦ Fruit Peels
- ♦ Water
- ♦ Sugar (white sugar, brown sugar or molasses)

How to Make Eco-Enzyme



- Measure sugar, fruit peels and water with ratio 1:3:10 respectively.
- Mix all ingredients into a plastic container and stir or shake. Plastic material is preferred to avoid the container from exploding when gasses built up.
- Leave some space at the top for the gas to be released
- Close the container until it is airtight and leave for 3 months at a cool and dry place.

During Fermentation

Make sure to leave some space at the top because gas will be released.

During the early stage of fermentation, open the container approximately every once a week to release the trapped gasses and prevents the container from exploding.



步骤Step1:

三个月后，酿制好的酵素可
泼开中间抽取酵素水
After 3 months fermentation,
Eco Enzyme is ready to
extract out.



步骤Step2:

过滤
Filtered It



Filter the liquid from the organic waste residue dan keep in any container for later use

步骤Step3:

装在瓶子里
Put it into bottles



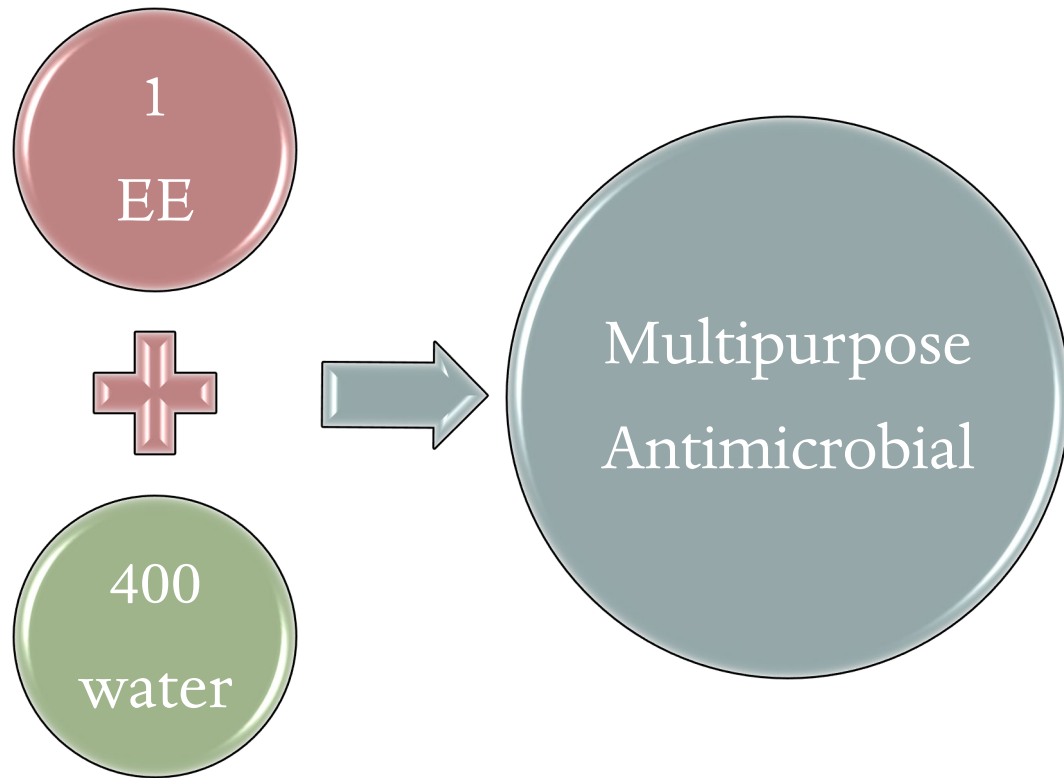
The organic waste residue
can be used as fertilizers.

步骤Step4:

酵素的渣

- 。可以拿来晒干，搅碎后埋在土里作肥料
 - 。搅碎后加入黄糖倒入马桶净化粪池
 - 。可继续留放在缸底和下次的鲜垃圾再次酿制酵素
- Enzyme Residue
- 。 Dry the residue then minced buried in the soil as fertilizer;
 - 。 Mix with brown sugar and pour into toilet to clean the sewage system;
 - 。 for next fermentation

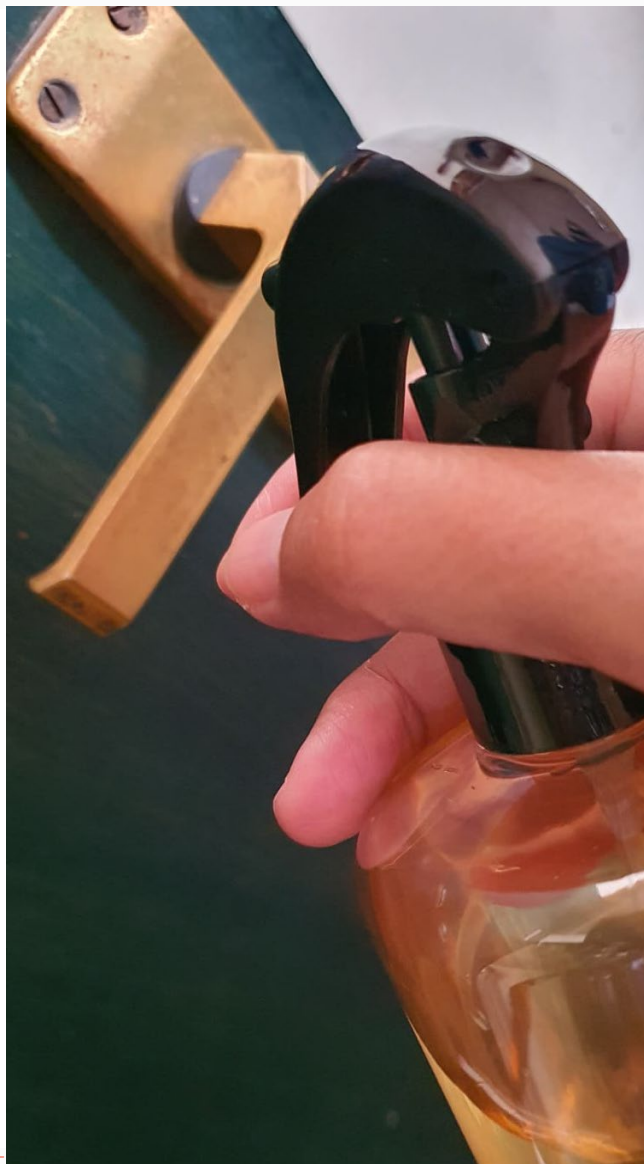




Ratio 1: 400

Example:
2.5 ml Eco Enzyme dilute in
1000 ml water





The Multipurpose Antimicrobial Ready to Use





Formulation for Hand Sanitizer

MATERIAL	% (W/W)
Demineralized Water	78
Tetrasodium Glutamate Diacetate	0.1
Sodium Lauroyl Sarcosinate	5
Vegetable Glycerin	2
Caprylyl Glucoside	2
Parfum (Fruit Scent)	0.4
Eco-Enzyme	12.5
TOTAL	100

Formulation for Hand Sanitizer

MATERIAL	
Tetrasodium Glutamate Diacetate	A rinsing aid to reduces the surface tension of water
Sodium Lauryl Sarcosinate	Has mild refatting properties that helps to bring softness and moisture to the skin
Vegetable Glycerin	Protect your skin against irritants and microbes, as well as soothe inflamed or wounded skin
Caprylyl Glucoside	A highly versatile all natural vegetable sourced and derived surfactant for use in a variety of products.
Parfum (Fruit Scent)	As Fragrances

Antimicrobial Effectiveness Test

Test Parameter	Concentration	Combination of Fruits Peel for Eco Enzyme				
		PN-EE	MJ-EE	NJ-EE	PJ-EE	PM-EE
Antimicrobial Effectiveness Test	0.0%	Failed	Failed	Failed	Failed	Failed
	1.6%	Failed	Failed	Failed	Failed	Failed
	3.1%	Failed	Failed	Failed	Failed	Failed
	6.2%	Failed	Failed	Failed	Failed	Failed
	12.5%	Passed	Failed	Passed	Failed	Failed
	25.0%	Passed	Failed	Passed	Passed	Failed

Conclusion



Easy

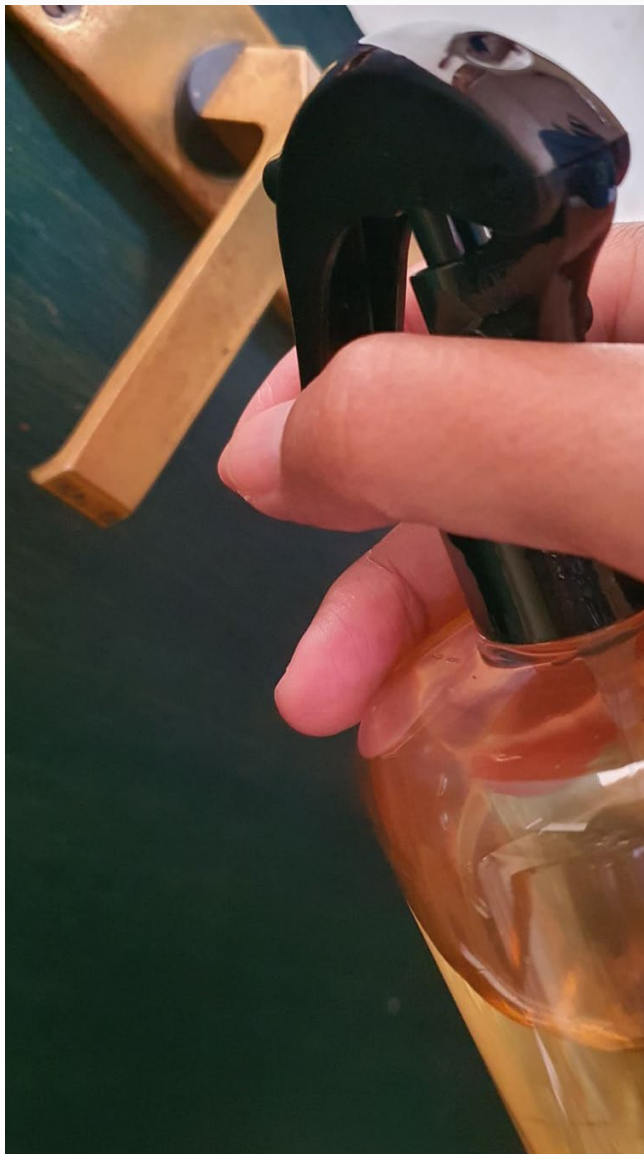


Eco Friendly



Cheap





So,
Let's Try it!



Thank You

Donna Imelda

donnaimeldajayabaya@gmail.com

+62 811 1111 505



travelecturer



References

1. Arun, C.; Sivashanmugam, P. Study on optimization of process parameters for enhancing the multi-hydrolytic enzyme activity in garbage enzyme produced from preconsumer organic waste. *Bioresour. Technol.* 2017, 226, 200–210. [CrossRef]
2. Gunwantrao, B.B.; Bhausaheb, S.K.; Ramrao, B.S.; Subhash, K.S. Antimicrobial activity and phytochemical analysis of orange (*Citrus aurantium* L.) and pineapple (*Ananas comosus*(L.) Merr.) peel extract. *Ann. Phytomed.* 2016, 5, 156–160. [CrossRef]
3. Li, T.; Shen, P.; Liu, W.; Liu, C.; Liang, R.; Yan, N.; Chen, J. Major polyphenolics in pineapple peels and their antioxidant interactions. *Int. J. Food Prop.* 2014, 17, 1805–1817. [CrossRef]