

Engr. Ashraf R. Khater, ChE, MEnE

LICENSED CHEMICAL ENGINEER · ACADEMIC CONSULTANT · EDITOR · RESOURCE SPEAKER

QUALIFICATIONS

- Master in Environmental Engineering
- Licensed Chemical Engineer (PRC ID No. 0031102)
- Seasoned Academic Consultant (Local and International)
- Proficient in Information Technology (Microsoft Office, Working knowledge on Programming Languages such as PHP, HTML, CSS, Java, and JavaScript and software such as SPSS 20, MATLAB, Visio, and CHEMCAD)
- Rich knowledge in Research Dynamics (Research Process, Citation Formats such as APA, MLA, Chicago/Turabian, AMA, ASA)



EDUCATIONAL BACKGROUND

Master in Environmental Engineering

High Academic Honors

University of St. La Salle, Bacolod City (2016-2020)

Thesis: Kinetic Modeling of Microplastic Degradation by *Pseudomonas putida*

Bachelor of Science in Chemical Engineering

Magna cum Laude

University of Negros Occidental-Recoletos, Bacolod City (2009-2014)

BS Plant Design Paper: *Design of Culture Vessel, Hydrolytic Vessel, and Fermentation Vessel for the Production of Ethanol from Bagasse*

PUBLISHED WORK

- Anota, J. M., Baynos, A. F., Galimba, J. P., Miranda, R., Muchuelas, S. M., Paulma, D., ... & **Khater, A.** (2023). Plant Design for the Production of Bioethanol from Acid-Hydrolyzed Fruit and Vegetable Wastes. *Virtutis Incunabula*, 10(1), 75-86.
- Abkilan, M. N., Atilano, L. N., Monton, A. E., Gomez, L. C., & **Khater, A.** (2022). Synthesis of Cellulose Nanofiber from Cogon Grass (*Imperata cylindrica*) for Bioplastic Production. *Virtutis Incunabula*, 9(1), 104-111.
- Lamera, K. E., Secondes, M. F., & **Khater, A.** (2021). Mushroom Technology: Sustainable Livelihood Opportunity for Recoletos Social Outreach-Handumanan. *Virtutis Incunabula*, 8(1), 15-22.
- Menes, C., Secondes, M. F., Haguisan III, I., Mendoza, T. J., Lumagbas, J., & **Khater, A.** (2021). Knowledge and Vulnerability to Climate Change: The Case of Selected Barangays in Negros Occidental. *Virtutis Incunabula*, 8(1), 67-78.
- Gustilo, R., **Khater, A.**, & Viaje, M. K. E. (2021). Improving Telecommunication Infrastructure in Rural Communities: Signal Strength and Path Loss Evaluation in Selected Communities. *Virtutis Incunabula*, 8(1), 49-57.

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- Khater, A.**, Secondes, M. F., Herbolario, J. X., Balinas, C. J., Lachica, A., Menes, C., ... & Lumagbas, J. (2021). Temperature-Humidity Discomfort Index as Measure of Sensitivity in Addressing Vulnerability to the Effects of Climate Change of Selected Communities in Negros Occidental. *Virtutis Incunabula*, 8(1), 94-99.
- Khater, A.**, Secondes, M. F., Herbolario, J. X., Balinas, C. J., Lachica, A., Menes, C., ... & Lumagbas, J. (2021). Water Quality Index as Exposure Indicator for Addressing Climate Change Vulnerability of Selected Communities in Negros Occidental. *Virtutis Incunabula*, 8(1), 79-93.
- Haguisan III, I. A., Menes, C. C., Mendoza, T. J. H., Lumagbas, J. G., Secondes, M. F. N., & **Khater, A. R.** (2020). Climate change in the eyes of the vulnerable community residents in the province of negros occidental, philippines. *International Journal Of Sustainability, Education, And Global Creative Economic (IUSEGCE)*, 3(3), 535-549.
- Sorrilla, S. S., Mangente, A. L., Maravilla, M. S. J., & **Khater, A. R.** (2020). Efficacy of pentoxifylline on renal outcomes in chronic kidney disease: a systematic review and meta analysis. (Working Paper).
- Galvan, R. T., Jino-o, J. M., Makinano, D. S., **Khater, A. R.**, & Secondes, M. N. (2017). Production of EN-590 grade diesel from high-density polyethylene, low-density polyethylene, and polypropylene waste. *Virtutis Incunabula*, 4(1), 35-42.
- Khater, A.**, Candor, J. L., Gamala, S., Cawit, R., Secondes, M. F., & Fernandez, Y. (2014). Ethanol Production from Bagasse: Media Culture, Substrate Hydrolysis, and Alcohol Fermentation. *Virtutis Incunabula*, 1(1), 29-40.

EXPERIENCE

ENGINEERING/RESEARCH

- **OVERALL CHAIR on Ethics Management Committee** (October 2024-Present)
Establishes policies and procedures relevant to research ethics for implementation
University of Negros Occidental-Recoletos
- **PROJECT CO-LEADER** (April 2024-Present)
Collaborative research with Petroleum and Petrochemical College of Chulalongkorn University; in-charge of palm oil data collection
Bangkok, Thailand
- **RESEARCH AND DEVELOPMENT OFFICE DIRECTOR** (June 2021 - Present)
University of Negros Occidental-Recoletos
- **TEAM MANAGER** (August 2021 – January 2022)
DILG-TA Media Literacy and Communication System Enhancement Project for Selected Communities in Binalbagan, Negros Occidental
- **PHYSICAL ENVIRONMENT AREA LEADER** (March 2016 - Present)
VALUE NEGROS (DARE-TO K-12 Transition Program Research Grant)

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▪ **CONFERENCE SPEAKER** (December 2020 - Present)

- 1st International Conference on Innovative Technologies for a Sustainable Environment
 - December 28, 2020
 - Presentation: Kinetic Modeling of Microplastic Degradation by *Pseudomonas putida*

▪ **PROGRAM HEAD** (June 2020 – Present)

College of Engineering, University of Negros Occidental-Recoletos
Chemical Engineering Program

▪ **FACULTY** (June 2016 - Present)

College of Engineering, University of Negros Occidental-Recoletos

- Professional Chemical Engineering Courses: CHICHM33G (Industrial Chemistry), CHQMAN530 (Quantitative Methods in Management), CHPART420 (Introduction to Particle Technology), CHCAL133E (Chemical Engineering Calculations 1), CHTRAN330 (Introduction to Transport Processes), CHEBIO530 (Biochemical Engineering), CHBTEC430 (Introduction to Biotechnology), CHCAL233E (Chemical Engineering Calculations 2), CHPOLY530 (Introduction to Polymer Engineering), CHEORG25P (Organic Chemistry), CHCOAP51Z (Computer Applications in Chemical Engineering), CHPDSN530 (Chemical Engineering Plant Design),
- General Engineering Courses: DIFCAL240/ENDCAL130 (Differential Calculus), ENICAL130 (Integral Calculus), DIFFEQ330 (Differential Equations), MHADVM330 (Advanced Engineering Mathematics), MHSTAT330
- Handled DIFCAL240 (Differential Calculus), DIFFEQ330 (Differential Equations), CALGEB130 (College Algebra), CHICHM33G (Industrial Chemistry), CHQMAN530 (Quantitative Methods in Management), CHPART420 (Introduction to Particle Technology), CHCAL133E (Chemical Engineering Calculations 1), CHTRAN330 (Introduction to Transport Processes), CHEBIO530 (Biochemical Engineering), CHBTEC430 (Introduction to Biotechnology), CHCAL233E (Chemical Engineering Calculations 2), CHPOLY530 (Introduction to Polymer Engineering), PHYSCS24G (College Physics 2), ANAGEO130 (Analytic Geometry), and RESRCH410 (Methods of Research)

▪ **FACULTY** (Nov. 2016 - Present)

Senior High School Department, Integrated School, University of Negros Occidental-Recoletos

- Handled GENCHEM180 (General Chemistry 1), GENCHEM280 (General Chemistry 2), and BSCCAL080 (Basic Calculus)

▪ **REVIEWER** (Feb.-Mar. 2015, Jan.-Feb. 2016, May 2016)

College of Engineering, University of Negros Occidental-Recoletos

- Tackled Chemical Engineering Licensure Examination topics under the PRBLM25E (Special Problems 2) Class for the graduating Chemical Engineering students in preparation of the board exam, particularly study techniques and strategies

▪ **EDITOR** (Sept. 2015 – Apr. 2016)

Virtutis Incunabula, Research and Development Office, University of Negros Occidental-Recoletos

- Provided technical editing aid to various research articles for publishing in the 2014 edition of the University's research journal

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▪ **ACADEMIC CONSULTANT** (2009 – Present)

- Provided technical advice and guidance for various forms of academic endeavors (term papers, proposals, theses, etc.) for various topics such as Nursing, Business Administration, Political Science, Engineering, Psychology, English Literature, Mathematics, Accounting, and Management (2009-Present)
- Statistician and Consultant for College of Medicine Papers on:
 - *Relationship between Facebook Usage and Sexual Behavior Among 4th Year College of Nursing Students of the University of St. La Salle AY 2015-2016* (Quantitative Paper, 2016)
 - *Sexuality in the Age of Facebook* (Qualitative Paper, 2016)
 - *Phytochemical Properties and Antibacterial Potential of Methanolic and Aqueous Leucaena Leucophala Bark Extract* (which garnered best research in Year-wide Research Competition) (2015)

▪ **PANEL DEFENSE MEMBER** (2015, 2016)

Chemical Engineering Department, College of Engineering, University of Negros Occidental-Recoletos

- Observed and critiqued undergraduate theses/plant design presentations of graduating Chemical Engineering students of the University of Negros Occidental-Recoletos

▪ **INDUSTRY TRAINEE** (2013)

- **Laboratory Trainee – Sugar Regulatory Administration, Bacolod City** (Apr. 30 – May 14, 2013)
 - Analyzed soil samples for Calcium, Magnesium, Nitrogen, pH
 - Prepared reagents for soil analysis
- **Laboratory Trainee – Bacolod City Water District, Bacolod City** (Apr. 10 – 29, 2013)
 - Analyzed water samples for hardness, Cl, Mg, Ca, N, pH
 - Checked water stations around Bacolod for Chlorine levels
- **Process Division/Quality Assurance and Quality Control Trainee – Victorias Milling Company, Victorias City** (Oct. 15-26, 2012)
 - Analyzed polarity, percent brix, and composition analyses
 - Monitored processes for sugar purity and properties

COMMUNICATION

▪ **TECHNICAL ADVISER** (2019-Present)

Tolentine Star, Official Student Publication
University of Negros Occidental-Recoletos

▪ **TECHNICAL CONSULTANT** (2015-2019)

Tolentine Star, Official Student Publication
University of Negros Occidental-Recoletos

▪ **RESOURCE SPEAKER** (2014-Present)

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- **Research Capability Program 2022 in Partnership with VMA Global Colleges and Training Centers, Inc.** (August 2022) – Mobilized the workforce that would be in charge of each topic, and discussed on Research Process and Ethics in Research
- **ASEAN Youth Volunteer Programme BINHIROES2016 Youth Camp** (Feb. 12-14, 2016) – Talked about the importance of communication for youth leaders in their desire to promote change in the community and the environment.
- **Province-wide News Writing Competition 2015** (Sept. 12, 2015) – Talked to various students from various schools around the province on the fundamentals of news writing, tips on developing the story, and important information on writing leads.
- **The Module – The Official Student Publication of UNO-R College of Engineering** (July 31, 2015) – Shared insight on balancing journalism and engineering to staff members of the aforementioned college publication.
- **Campus Journalism Seminar-Workshop** (E-Classroom of Teodoro M. Morada Sr. Elementary School, May 20, 2014) – Shared insight on campus journalism to elementary students.
- **The Write Start – Campus Journalism Seminar-Workshop** (Romanito Maravilla National High School, Bacolod City, May 16, 2014) – Shared insight on campus journalism to high school students, particularly in Feature Writing and Campus Journalism and Paper Management

- **COMPETITION JUDGE** (2012-2014)
 - **3rd Province-wide Inter-High School Newswriting Competition** (Feb. 15, 2014)
 - **UNOversity Clash of the Minds: The U-Wide Debate 2012** (Oct 3, 2012)

- **ORGANIZER** (2011-2014)
 - **1st Gawad Tolentino Awards for Short Story and Poetry Writing** (Tolentine Star, University of Negros Occidental-Recoletos, Feb. 1, 2014)
 - **Campus Publication Seminar and Workshop Series** on Photojournalism, Headlining and Copyediting, and Feature Writing (Tolentine Star, University of Negros Occidental-Recoletos, Aug. 11, 2013)
 - **Interviewing: Dealing with Sources and Getting the Answers We Need** (Tolentine Star, University of Negros Occidental-Recoletos, Feb. 13, 2013)
 - **“Lubas”** – Province-wide Campus Journalism Conference (College Editors Guild of the Philippines, University of Negros Occidental-Recoletos, Nov. 3-6, 2011)
 - **“Balhag”** – Province-wide Campus Journalism Gathering (College Editors Guild of the Philippines, Scala Retreat House, Bacolod City, Sept. 2, 2011)
 - **2nd Tolentine Star Writing Workshop** (Tolentine Star, University of Negros Occidental-Recoletos, June 11, 2011)

LEADERSHIP

▪ UNIVERSITY PUBLICATION

Tolentine Star, University of Negros Occidental-Recoletos (2011-2014)

- **Editor-in-Chief** (2012-2014)
- **Associate Editor** (2011-2012)
- **Literary Editor** (2010-2011)

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▪ LEO CLUB OF MT. KANLA-ON (Nov. 2013-2014)

Lions International, Bacolod City

- **Public Information Officer** – Coordinated with all members regarding information dissemination and played an active role in maintaining smooth communication among members

ENRICHMENT

ENGINEERING/RESEARCH

▪ PARTICIPATION

- “3rd Accreditation Conference on Engineering (ACE 2024)” (Philippine Technological Council, September 19, 2024)
- “85th PIChE National Convention” (Philippine Institute of Chemical Engineers, September 11-13, 2024)
- “Advanced Training Course on the Use of Flexible Learning Options for Curriculum Design, Learning Delivery and Assessment of Learning Outcomes in Engineering” (Commission on Higher Education, September 19, 2022 to October 7, 2022)
- “4th PIChE Visayas Regional Conference” (Philippine Institute of Chemical Engineers, June 24, 2022)
- “Integrated Assessment and Reporting Mechanism on Student’s Performance” (Central Philippine University, October 27, 2021)
- “Online Teaching Learning Strategies in the New Normal” (United Federation of Fil-Am Educators, October 22, 2021)
- “Establishing a Research Ethics Committee” (International Association of Research Ethics Across Disciplines, July 13, 2021)
- “A Forum on Higher Education of the Future” (University of the Philippines Open University, June 25, 2021)
- “Understanding Research Ethics: Important Step in Promoting Appropriate Research Environment” (Philippine Rice Research Institute, June 23, 2021)
- “Training Workshop on Calibrating the Research Syllabus for CMO 15 s.2019” (University of San Jose-Recoletos, June 16, 2021)
- “Improving Survey Methods and Developing Effective Questionnaires” (Benguet State University, June 15, 2021)
- “Continuing Professional Update and Asia Quality Reference Framework” (Philippine Institute of Chemical Engineers, Colegio San Agustin-Bacolod, 2013)
- “The Role of Mining in Advancing Research and Economic and Technological Development in the Philippines” (College of Engineering and Technology, University of St. La Salle, 2013)
- “Mining: The Philippine Context” (College of Engineering and Technology, University of St. La Salle, 2013)
- “Contemporary Issues of Mining in the Philippines” (College of Engineering and Technology, University of St. La Salle, 2013)

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- “The Different Career Paths in ChE” (UP ALCHEMES, University of the Philippines-Diliman, 2012)
- “Chemical Engineering for Humanity” (UP ALCHEMES, University of the Philippines-Diliman, 2012)
- “Petrochemical Pumps” (Fluor Daniel Inc., University of Negros Occidental-Recoletos, 2012)
- “Water Quality for Breweries” (San Miguel Brewery, Colegio San Agustin-Bacolod, 2012)
- “Safety in the Academe and Research Laboratories” (Sugar Regulatory Administration, Colegio San Agustin-Bacolod, 2012)

▪ RECOGNITION

- **Outstanding Engineering Graduate (BS ChE Batch 2014 – Magna Cum Laude)** (Council of Engineering and Architecture Schools of Western Visayas, 2014)
- **Participant (3rd Place)** during Regional Math and Science Quiz Bowl (Council of Engineering and Architecture Schools-Western Visayas, 2012 and 2013)
- **Participant (3rd Place)** during 2012 Provincial PIChE Quiz Bee (2012 and 2013)
- **Champion** during Environmental Week Quiz Bowl on “Green Minds Think Alike, Green Hearts Work Together” (UNO-R SSG, University of Negros Occidental-Recoletos, 2012)
- **Participant (9th Place)** during PIChE National Quiz Bowl (Colegio San Agustin-Bacolod, 2011)

▪ MEMBERSHIP

- Member, Philippine Institute of 21st Century Educators, Inc. (Since 2023)
- Member, Professional Organization of Researchers and Educators of the Philippines (Since 2023)

COMMUNICATION

▪ PARTICIPATION

- Inkblots (University of Santo Tomas, 2014)
- The Spectrum Fellowship (University of St. La Salle, 2014)
- “Communicating Culture Workshop” (Negros Culture Foundation, Negros Museum, 2012)
- Philippine Information Agency Journalism Workshop (2012)

▪ RECOGNITION

- **Campus Journalism Award** (University of Negros Occidental-Recoletos, 2014)
- **One of Top 10 Outstanding Campus Journalists** (National Campus Journalism Conference and 2nd National Campus Press Awards, The Spectrum, 2012)
- **Champion** during Essay Writing Content during Students’ Congress of Recollect Schools (SCORES) Season 26 (University of Negros Occidental-Recoletos, 2011)

LEADERSHIP

▪ RECOGNITION

- **One of Top Ten Outstanding Students in the Region (TOSP-VI)** (TOSP-VICTORS, 2014)
- **The Outstanding Students (THOS)** Awardee (JCI Bacolod, 2014)
- **Leadership Award** (University of Negros Occidental-Recoletos, 2014)

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- **Academic Excellence Award** for being Magna cum Laude (Gado Jalandoni Scholarship Program, 2014)
- **Outstanding Student Leader Award** (Office of Student Welfare, University of Negros Occidental-Recoletos, 2014)
- **Campus Journalistic Prowess as Editor-in-Chief** (Tolentine Star, University of Negros Occidental-Recoletos, 2013)
- **Service Award as Editor-in-Chief** (Office of Student Welfare, University of Negros Occidental-Recoletos, 2013)
- **Service Award as Associate Editor** (Office of Student Welfare, University of Negros Occidental-Recoletos, 2012)