

# PAPER PRESENTATION

Beyond the tests: Examining mathematics teachers' voices in crafting PISA-like test questions	Dr. Allan M Canonigo
Development and Validation of the Visual Representations Test in Chemistry: A Rasch Analysis	Dr. Jonathan M. Barcelo
Exploring Latent Class Profiles of Mathematics Performance among Filipino Students: Insights from PISA 2022 Using Growth Mindset Indicators and Group Comparison Analysis	Mr. Von Lorenz A. Chavez
Identifying and Validating Attributes of Explaining Phenomena Scientifically under the Cognitive Diagnostic Modeling Framework	Dr. Ivy P. Mejia
Implementing Challenging STEM-Based Engineering Design Activities: A Qualitative Approach to Track Engineering Practices Among Secondary School Students	Mr. Salim Khamis Alharmali
ION: A Learning Model in Teaching Formula Writing and Naming of Compounds	Mr. John Kenneth B. Taneo
Musichemistry: Effects on Learners' Motivation, Engagement and Proficiency in Chemistry	Mr. John Mark P. Burila
Teaching Mathematics with GeoGebra in a Technology-Limited Classroom	Dr. Erlina R. Ronda & Ms. Abigail B. Gonzales
Technological, Pedagogical, and Content Knowledge of Physics Teachers (TPACK): Basis of In-service Training Design Development	Ms. Blossom Pearl Palmares Tabuada
The Cognitive and Non-Cognitive Effects of Geogebra Integration	Mr. Genaro T. Ardina

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Impact evaluation of a four-year professional development program for science teachers aimed at designing, implementing, and publishing participatory action research project	Ms. Anne S. Lorca
A meta-synthesis of effective practices and outcomes in the use of manipulatives for teaching mathematics	Mr. Robert Jay N. Angco
Levels and Sources of Conceptual Understanding of Conic Sections Among STEM Students: Towards a Model with Learning Support	Dr. Janwin C. Magas
Development and Validation of Three-Tiered Cell Cycle Concept Test for Identification of Misconceptions	Mr. Esmeth C. Espinola
Integrating ChatGPT in Math Education: A Narrative Inquiry into Mathematical Investigation, Problem Solving, and Mathematical Modeling at ISUFST	Dr. Herman Magbanua Lagon
Development of a curriculum on research with innovation for potentially gifted elementary learners: A delphi study	Dr. Micron Rey B. Fuego
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Meta-thematic synthesis of the utilization of problem posing as instructional approach in mathematics	Mr. Ian Cesar P. Balacuit
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Students' Authentic Innovative Outputs and Engagements in Disaster Readiness and Risk Reduction through Project-Based Learning Model	Mr. Gilden Maecah M. Migalang
Cultural profile, epistemological beliefs and scientific literacy: Implications towards learning Physics in multicultural classroom	Mr. Jeovanny A. Marticion
Exploring the Relationships Among Productive Disposition, Values, Attitudes, and Behaviors Towards Mathematics of Pre-Service Mathematics Teachers	Dr. Emil C. Alcantara
ICT-Based Learning Media: Utilising Virtual Reality to Teach Hydroelectric Power Renewable Energy for STEM Education	Mr. Aminudin Zakaria
Development and validation of a scale for evaluating STEM faculty teaching effectiveness in higher education	Mr. Robert Jay N. Angco
General Chemistry Assessment Tool for Solids and Liquids	Mr. Rafael Benedick F. Santos
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An Illuminative Evaluation of the Grade 12 Introduction to 3D Printing Class Conduct	Ms. Reena R. Ongsotto
XentrinoBot: A Flexible and Cost-Effective STEM Robotics Platform for Industrial and Educational Applications	Engr. Christopher M. Coballes
Error patterns in decimals and fractions: The case of pre-service elementary teachers	Dr. Joan B. Sionicio
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Insights from Private University Leaders in Baguio City: A Technology Foresight Study on Artificial Intelligence	Mr. Jeffrey P. Sibayan
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Comparative analysis of titration practices across educational institutions with varied accreditation levels	Dr. Carina B. Orden
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Probing Secondary Physics Education: Assessing Curriculum Congestion and Teacher Proficiency in Electric Fields Instruction	Mr. Elwells B. Ulla
Science Investigatory Project Competence Assessment: Basis in Developing SIP Enrichment In CCB JHS	Ms. Christine May A. Torres-Reyman
The impact of using Problem-Solving Maps (PSM) as intervention for deaf learners in improving numeracy	Mr. John Richard L. Quiambao
On Saving Makiling: Development and Evaluation of Contextualized Local Ecosystem-Based Instructional Module in Biodiversity (CLIMB) for Grade 9 Students of Los Baños National High School – Batong Malaki	Mr. Marl Vinz C. Ollave

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Adaptation Practices of Science Teachers in Laboratory Instruction for Learners with Disabilities: Basis for the Development of a Practical Resource Guide	Mr. Franz Ian D. Solomon
Life-Based Narratives: Its Effects on Perceptual Knowledge in General Biology 2 and Decision-Making Skills among Grade 12 Students	Mr. Rainer P. Sularte
Improving Teaching Quality in General Chemistry Through Lesson Study	Mr. Ace B. Cardeño
Participation and completion of science and math bridging courses of UP Manila Learning Resource Center	Mr. Miigel Antonio P. Catalig
High school classroom-based experiences in integrating Geogebra: A meta-synthesis	Mr. Genaro T. Ardina
Teaching the Center-Radius Equation of a Circle: A Documentational Genesis within a Professional Development Setting	Mr. Ralph Ian M. Robles
Secondary school student's impulsiveness in Physics	Mr. Aldrene F. Bustillos

# ROUND TABLE DISCUSSION

Development of project-based STEM instructional material in organic chemistry for grade 11 learners	Ms. Efefany Jane H. Jumarito
Soap Making Activity in Organic Chemistry through Project-Based STEM Approach for STEM Learners	Ms. Efefany Jane H. Jumarito-Gampo-an
Bridging Gaps: Unveiling the Challenges and Recommendations of Junior High School Completers and Science Teachers in the K to 12 Science Teaching-Learning	Mr. Lemuel M. Sayao
The Integration of Sustainable Development Goal #3 Into A Grade 7 Learning Plan On Light	Ms. Stephanie CJ Legazpi Dalit
5 Es Instructional Learning Activities (ILA): Effects on Learners' Conceptual Understanding, Science Process Skills, and Attitude Towards Physics	Ms. Glaisa B. Lumampao
Reflective teaching approach: Immersing students in the value of learning	Dr. Elymar A. Pascual
Communication competencies in the age of unmanned aerial vehicles (UAVs) ecosystem	Dr. Brian S. Bantugan
Authentic Use of Collaboration Technologies through a Simple Food Business Feasibility Study on IDS Campus	Ms. Kristine Mae P. Escanillan-Galera
Factors Contributing to the Mathematical Unpreparedness of Freshman BS Mathematics Education Students: Perspectives from Students and College Instructors	Ms. Queeny Eliza D. Saldares

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Effectiveness of Utilizing Graphic Organizers in Improving Conceptual Understanding towards Operations of Fractions among Teachers	Mr. Bench G. Fabros
e-Workbook for Teaching Climate Change for Senior High School	Mr. Gaylord Brent R. Rabang
Exploring the use of journal writing in developing mathematical thinking processes	Dr. Ma. Melanie N. Edig
Experiential and supplemental games in chemistry: their effects on critical thinking and problem-solving skills	Dr. Ian Jay P. Saldo
Improving Teaching Quality in General Chemistry Through Lesson Study	Mr. Ace B. Cardeño
Educators shaping innovators: a case study of teacher-coaches of science investigatory projects (SIP)	Mr. Eufemio D. Adaraya Jr.
Uncovering gender- and performance-based types of group formation in the social network of physics students	Mr. Gerold C. Pedemonte
The Use of an Online Learning Management System to Assess the Performance of the Students in Trigonometry	Mr. Michael L. Novero
Integrating Online Laboratory Activities into Blended Learning for Emergency Situations	Mr. John Alfred C. Pelenio
Importance-Performance Analysis of Teachers' Perceptions on Learning Competencies and Science Process Skills	Ms. Maria Michelle V. Junio
Perceptions of Filipino Education Stakeholders on Science Process Skills	Ms. Maria Michelle V. Junio
Paraiso, make the world understand: A Green Research Symposium Project Proposal for Senior High School Students	Mr. Rafael Benedick F. Santos



# OPEN SPACE DISCUSSION

Unveiling the Spiritual Nature of Science	Dr. Reynand F. Dumala-on
Mathematical modelling in integrated STEM tasks	Ms. Haidee P. Rosete
Issues in STEM Education [Unpacking the Conundrum: Optimizing Mathematics Integration in STEM Education]	Dr. Allan M. Canonigo
Exploring future online STEM learning spaces	Ms. Eijah Isabella P. Ednalino

# SYMPOSIUM

Math Discourse Matters	Dr. Erlina R. Ronda
Mathematics instruction in STEM in the early grades	Ms. Edna G. Callanta, Ms. Dana M. Ong, and Dr. Monalisa T. Sasing

# WORKSHOP

Exploring Earth and Space with Emerging Technologies	Mr. Anthony Guiller E. Urbano
Maximizing impact through monitoring and evaluation: Developing a results chain for STEM education programs and projects	Ms. Eijah Isabella P. Ednalino
Interactive Math Lessons with Desmos Activity Builder and Desmos Classroom	Mr. Reymund R. Gonowon
Empowering STEM educators with Yudu Copilot: A hands-on workshop on AI tools for teachers	Ms. Cheryl B. Nasol
Promoting Education for Sustainable Development (ESD) through the Integration of UN International Day Celebrations in Science Teaching	Mr. Melandro D. Santos
Level Up Your Teaching with Essential Resources: Grade 7 Mathematics	Ms. Abigail B. Gonzales
Lecture-workshop on the use of citation management tools, style manuals and plagiarism checkers	Ms. Cherry A. Velasco