

National Oral Presentation Schedule

Physical Science 1 (Master's Degree)

at Room no. GL 212, 2nd Floor, Pote Sarasin Building

No.	Code	Time	Name - Surname	University	Program Study	Title	Page
1	PMO1	11.00-11.15 am	Mr. Supapad Malasai	Khon Kaen University	Chemical Engineering	The Application of Phase Change Material in Solar Dryer Prototype	61
2	PMO2	11.15-11.30 am	Mr. Watchara Sangsopha	Khon Kaen University	Organic Chemistry	Chemical Constituents and Biological Activities from the Aerial Parts of <i>Sphaeranthus indicus</i>	66
3	PMO3	11.30-11.45 am	Miss Jurarat Kwakong	King Mongkut's University of Technology North Bangkok	Chemical Engineering	Synthesis of Ammonium Magnesium Silicate for Biodiesel Purification	74
4	PMO4	11.45 am-12.00 pm	Miss Punnasiri Joomlee	Khon Kaen University	Environmental Engineering	Assessment of Potential Industrial Estate Site Using Strategic Environmental Assessment Approach: Case Study of Khon Kaen Province	82
12.00 – 01.00 pm Lunch							
5	PMO5	01.00-01.15 pm	Mr. Watcharapol Khotwieng	Khon Kaen University	Environmental Engineering	Efficiency of High Rate Treatment of Khon Kaen Municipality Sewage by a Pilot-scale Combination System of the Sedimentation Tank and Down-flow Hanging Sponge Reactor	89

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6	PMO6	01.15-01.30 pm	Mr. Nuttagorn Mawangnutoon	Khon Kaen University	Environmental Engineering	Anaerobic Wastewater Treatment System applied for Sugarcane Molasses Ethanol Plants in Thailand	96
7	PMO7	01.30-01.45 pm	Miss Fatima klongdee	Khon Kaen University	Chemistry	Solvothermal Synthesis and Crystal Structures of Copper Coordination Polymers Containing Pyrazole-3,5-dicarboxylate and 1,2-di(4-pyridyl)ethylene	-, *
8	PMO8	01.45-02.00 pm	Miss Siriporn Phengthaisong	Khon Kaen University	Chemistry	The Structural Diversity of Cobalt(II) Complexes with Flexible 4,4'-Oxy(bis)benzoate and Variety of N-donor Ligands	-, *

National Oral Presentation Schedule

Physical Science 2 (Master's Degree)

at Room no. GL 213, 2nd Floor, Pote Sarasin Building

No.	Code	Time	Name - Surname	University	Program Study	Title	Page
9	PMO9	11.00-11.15 am	Mr. Pakorn Palakawong na Ayutthaya	Khon Kaen University	Mathematics	Characterizations of Intra-regular Ordered Semirings by Ordered Quasi-ideals	102
10	PMO10	11.15-11.30 am	Miss Satanan Thipworawimon	Silpakorn University	Mathematics	A Fast Time Marching Method for Higher-Order PDE-Based Image Registration	110

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11	PMO11	11.30-11.45 am	Mr. Permpoon Senarat	Khon Kaen University	Mathematics	Right Ordered k - Ideals of Ordered Semirings	117
12	PMO12	11.45 am-12.00 pm	Mr. Panuwat Luangchaisri	Khon Kaen University	Mathematics	On the Principal Bi-Ideals in the Direct Product of Two Semigroups	127
12.00 – 01.00 pm Lunch							
13	PMO13	01.00-01.15 pm	Miss Suwannee Saothong	Ubon Ratchathani University	Mathematics Education	Effects of Organizing Learning Activity Using IMPROVE Process with Creative Problem Solving Process on Reasoning Ability in Mathematical Problem Solving on Properties of Exponents	133
14	PMO14	01.15-01.30 pm	Mr. Sirawit Puinoy	Rajamangala University of Technology Isan	Applied Information and Communication Technology	Applied STC's Data Mining Technique for Job Recommendation of RMUTI Computer Science Students	143
15	PMO15	01.30-01.45 pm	Mr. Pongpoom Keawsungnern	Rajamangala University of Technology Isan	Applied Information and Communication Technology	Google API Development for Planning the Drinking Water Transportation by Saving Matrix: A Case Study of Community Enterprise at Khamtaleso District Nakhonratchasima Province	152
16	PMO16	01.45-02.00 pm	Mr. Thanapong Phuybuakor	Khon Kaen University	Forensic Science	The Assessment of Chemical Stability of Propellant by Measuring Anti-Flash and Stabilizer Content	159

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17	PMO17	02.00-02.15 pm	Miss Kunita Onlaor	Khon Kaen University	Forensic Science	Evaluate of Efficiency of Cottons Swab in Sample Collection of Inorganic Gunshot Residue	166
18	PMO18	02.15-02.30 pm	Miss Ploypailin Kaewboonruang	Khon Kaen University	Forensic Science	Pattern of Organic Gunshot Residue Distribution on Hands After Shooting	175

National Poster Presentation Schedule

Physical Science 1 (Master's Degree)

at Room no. GL 314, 3rd Floor, Pote Sarasin Building

No.	Code	Time	Name - Surname	University	Program Study	Title	Page
1	PMP1	01.00-02.30 pm	Mr. Worawat Paha	Naresuan University	Electrical Engineering	Temperature Control System In Oven Using Hybrids Energy Between Solar and LPG	183
2	PMP2	01.00-02.30 pm	Miss Umaporn Supawong	King Mongkut's University of Technology Thonburi	Energy Management Technology	Potential of Electricity Conservation by Promotion of LED in Residential in Metropolitan Electricity Authority's Obligation Area	191
3	PMP3	01.00-02.30 pm	Miss Phitchayaphak Sompanya	Burapha University	Physics Education	Measurement of Surface Tension by the Dripping from a Needle: Tate's Law Method	199

No.	Code	Time	Name - Surname	University	Program Study	Title	Page
4	PMP4	01.00-02.30 pm	Mr. Muhammadsu Sulong	Chulalongkorn University	Nuclear Engineering	Development of a Computer Program to Calculate Concrete Thickness for Gamma-ray Shielding	206
5	PMP5	01.00-02.30 pm	Miss Punnupa Wongmungkorn	Khon Kaen University	Food Technology	Product Concept Development of Snack Product Using Free-Choice Profiling	212
6	PMP6	01.00-02.30 pm	Miss Nampeung Pearjan	Khon Kaen University	Remote Sensing and Geographic Information System	Characterizing Urban Growth Types by GIS and Remote Sensing Data: a Case Study in Amphoe Mueang Nakhon Ratchasima	222
7	PMP7	01.00-02.30 pm	Mr. Piyaporn Thangdee	Chiang Mai University	Applied Physics	Effect of $Mg_xZn_{1-x}O$ Sputtering Time on Efficiency of ZnO Dye-Sensitized Solar Cells	231
8	PMP8	01.00-02.30 pm	Mr. Phakpoom Yindeesit	Chulalongkorn University	Petrochemistry and Polymer Science	Flue Gas Desulfurization using Limestone During Coal Combustion	239
9	PMP9	01.00-02.30 pm	Mr. chaikamol nookaew	Khon Kaen University	Energy Engineering	The Study of Aluminum-air Battery from Aluminum Can Waste	247, **
10	PMP10	01.00-02.30 pm	Mr. Juggaragorn Chearnchaiyaphum	Khon Kaen University	Energy Engineering	The Prototype of Aluminum-air Battery Cell with Circulating Electrolyte	253, **
11	PMP11	01.00-02.30 pm	Mr. Nut Hansopa	Khon Kaen University	Energy Engineering	Heat Transfer Effectiveness of Concentric Tube Heat Exchanger with Coiled Wires	260, **

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No.	Code	Time	Name - Surname	University	Program Study	Title	Page
12	PMP12	01.00-02.30 pm	Miss Siwaporn Thepjung	Khon Kaen University	Chemistry for Teacher	Optimum Condition of Hydrolysis of Bamboo Shoots Shell by Dilute Sulfuric Acid Using Response Surface Methodology for Glucose Production	267
13	PMP13	01.00-02.30 pm	Mrs. Jutamas Choosakun	Nakhon Ratchasima Rajabhat University	Science Education Chemistry	The Effect of Natural Mordant pH on Shade and Quality of Dyed Silk	277
14	PMP14	01.00-02.30 pm	Mrs. Pratana Soseeha	Khon Kaen University	Chemistry for Teacher	Application of Industrial Waste as a Catalyst for Biodiesel Production of Palm Olein	283
15	PMP15	01.00-02.30 pm	Mr. Thawit Suwannatrai	Burapha University	Chemical Education Science	A Paper-Based Device for Antioxidant Activity Analysis Using Distance-Based Measurement	292
16	PMP16	01.00-02.30 pm	Miss Pawinchaya Najanthad	Khon Kaen University	Chemistry for Teacher	Histone Deacetylase 8 Inhibitory Activity of Kaempferol and Its Derivatives: a Molecular Docking Study	300
17	PMP17	01.00-02.30 pm	Miss Chotika Khunprathum	Khon Kaen University	Chemistry for Teacher	Preliminary Phytochemical, Antioxidant and Antibacterial Activity Tests of Schinus terebinthifolius young leaf and twig methanolic extracts	308

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18	PMP18	01.00-02.30 pm	Miss Nanthiya Phatthanachai	Khon Kaen University	Chemistry for Teacher	Molecular Docking and Quantum Mechanics Study of Curcumin and Its Derivatives for Inhibiting Histone Deacetylase 1 Activity	317
19	PMP19	01.00-02.30 pm	Mr. Ritthichai Wisetchat	Khon Kaen University	Chemistry for Teacher	Study on Histone Deacetylase 2 Inhibitory Activity of Flavonoids and Anthraquinones Using a Molecular Modeling Method	326
20	PMP20	01.00-02.30 pm	Mrs. Pornprapa Sanluang	Rajamangala University of Technology Lanna	Agricultural Technology	Effects of Clove Extracted: <i>Syzygium aromatimaticum</i> (L.). Merr. & Perry and Kitchen mint Extracted: <i>Metha cordifolia</i> Opiz. on Ectoparasite <i>Tropilaelaps</i> (<i>Tropilaelaps clareae</i>) and Behavior of Honey bee(<i>Apis melifera</i>)	334
21	PMP21	01.00-02.30 pm	Miss Pacharawan Ouengsirisawad	Khon Kaen University	Chemistry for Teacher	Adsorption of Methylene Blue Dye Using Dried Shell of Bamboo Shoots	343,**

* No Publication

** Independent Study