## **Siam Physics Congress 2017**

## Thursday 25 May 2017

Poster Presentation II (17:00 - 18:00)

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[135] Determining the Relationship of Atmospheric CO2 Concentrations to Vehicular Traffic	Ms CHUMPHUIN, Laksika Ms FANKREA, Suthima	
[48] Spectroscopic properties for identifying sapphire samples from Ban Bo Kaew, Phrae Province, Thailand	MOGMUED, Jidapa	
[55] Low Temperature Reduction of Graphene Oxide by Plasma Processes	Mr SOONTHORNNANT, Krisada	
[81] Production of dried shrimp mixed with turmeric and salt by Spouted Bed technique enter the rectangular chamber.	Mr THANTONG, PISUT	
[24] Design and construction of portable survey meter	Mr SINGSEETA, Warut	
[63] Peltier Effect Based Temperature Controlled System for Dielectric Spectroscopy	Mr MUKDA, Teepkorn	
[12] Effect of doping by different transition metal oxides on the elastic and structural properties of recycled borosilicate glasses	SOPAPAN, Poonnaphob	
[27] Mechanical Properties of Cement/Bacterial Nano-Cellulose Composite	Mr PALAPORN, Dulayawit	
[35] Gamma-ray shielding and structural properties of strontium–lead–silicate glasses	GUNHAKOON, Pattaranipa	
[106] A portable flat vacuum cell and the effect of its surface adsorption	Mr JAYJONG, Nakarin	
[149] Structural stability and electronic structures of YH\$_2.83\$ and ScH\$_2.83\$	PAKORNCHOTE, TeeRachote	
[216] Geometry-Dependent Faraday Rotation in Strained Graphene	Mr NUALPIJIT, Phusit	
[310] Effective capacitance of metallic single electron transistor	Dr SRIVILAI, prathan Mr HARATA, pipat	
[265] Building and testing antennas wainscot from teak and para scrap woods: Built-up Column type and Spaced Column type	Mr WASURATMANEE, Jamon	
[337] F and D Supersymmetry Breaking in AdS Space	Mr LOOKRAK, Sirapat	
[197] The measurement of cosmic-ray muon	Mr SUKULTANASORN, Jittrathep	
[321] Principle chiral models and integrable systems	Dr FRASER, Benjo	
[87] Reduction of setup time in wafer sort process before integrated circuit packaging	Mr WATTHAKEEHUTTAKUM, Pannawat	
[300] Classification of Glutinous rice RD6 Grain Using Machine Vision and Support Vector Machine	Ms SOMWONG, Pananya	
[334] Fabrication and preparation of Mg-reducing 12CaO•7Al\$_2\$O\$_3\$ cement for enhancing of electrical and optical properties	RUDRADAWONG, Chalermpol	
[255] Effecting aging time of epoxy molding compound to molding process for integrated circuit packaging	TACHAPITUNSUK, Jirayu	
[294] Magnetic Force Microscopy Study on Wide Adjacent Track Erasure in Perpendicular Magnetic Write Heads	Ms RUKSASAKCHAI, Poramaporn	

[21] CuFeO\$_2\$ formation using fused deposition modeling 3D printing and sintering technique	Mr SALEA, Ahamad
[17] On the \$\lambda\$-extended class of the canonical transformations	Mr SRISUKSON, Saksilpa
[122] Instability analysis of dust acoustic solitons in dusty plasma with both trapped electrons and ions	PHIBANCHON, Sarun
[236] Thermal Properties of Green Briquettes Fuel from Corn Cobs Residue Materials Mixed Macadamia shell Charcoal Powder	TEETA, Suminya
[235] Application of combined gas-fired infrared and air convection drying for quality and energy consumption of instant rice	Dr NACHAISIN, Mali
[324] Effect of thick barrier in a gapped graphene Josephson junction	SUWANNASIT, Tatnatchai
[65] Production and Ratio Analysis for The Production of Charcoal Briquettes from Bamboo(Dendrocalamus Asper Backer)	Mr LUKMUANG, Ratchatapong
[280] Theoretical Study on Structural and Electronic Properties of Polypyrrole: Ammonia Gas Sensor	MARUTAPHAN, Ampaiwan
[351] Monte Carlo simulation of cosmic radiation dosimetry to aircrews at the world highest rigidity cutoff	Mr RODPHOTHONG, dumrongsak
[262] Moisture Measurement in Paddy Rice	Ms KLOMKLAO, Panadda
[359] The investigation physical and electric properties of Mg1-xMnxFe2O4 ceramics	KENYOTA, Nititorn
[364] Effects of an intermediate c-GaN buffer layer on structural and optical properties of AlN films on MgO (001) substrates	Mr DISCHAROEN, Nutthapong
[198] A Molecular Dynamics Study of the Interfacial Regions Between Polymer and Carbon-Based Nanoparticle Fillers	Dr SUTTHIBUTPONG, Thana
[275] Phase Transition and Electrical Properties of CaCO3 Prepare by Precipitation Method.	KAEWSOPA, Sayamon
[309] Preparation of Platinum (Pt) Counter Electrode Coated by Electrochemical Technique at High Temperature for Dye-sensitized Solar cell (DSSC) Application	Mr PONKEN, Tanachai
[314] Phase Transformation, Surface Morphology and Dielectric Property of P(VDF-HFP)/MgCl\$_2\$•6H\$_2\$O Nanocomposites	Ms YUENNAN, Jureeporn
[328] Effect of Lightweight aggregates prepared from fly ash on lightweight concrete performances	Dr SUNTAKO, Rudeerat
[343] Effect of Mg on Mechanical Properties of Mg\$_x\$Fe\$_{(3-x)}\$O\$_4\$ Prepared by Solid State Reaction	SUTTHAPINTU, Aekasit
[148] Development of Beam Diagnostic System for Natural Rubber Vulcanization Linac	Mr KONGMON, Ekkachai
[188] Simulation and Design of Electron Beam Irradiation System for Natural Rubber Vulcanization	Ms KOSAENTOR, Kittiya
[124] Calcium oxide synthesis from cockle shells. The catalyst For the production of biodiesel from palm oil.	Ms A WAE, Subaidah
[95] A review of scalar eld cosmology: Its non-linear Schr odinger-type formulation	Ms KRITPETCH, Chonticha
[68] Properties of Pre-main sequence stars in young star cluster NGC 2175	Mr PLOYDANG, Siwarut
[171] The background evolution in general disformal gravity	Mr JAKSRI, Saksith
[129] Observation of GEO Satellite Above Thailand's Sky	KASONSUWAN, Kanpatom

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[208] A study the period variation rate of V1292 Taurus RR Lyrae variable star	PRACHUMLEK, Patsakorn
[180] Correlation between Io's lead angle and the satellite's magnetic footprint	Dr WANNAWICHIAN, Suwicha
[380] Preheating in disformal inflation	Dr KARWAN, Khamphee
[200] Gibbs Energy Additivity Approaches in Estimation of Kinematic Viscosities of n-Alkane-1-ol	PHANKOSOL, Suriya
[392] Full Characterization of Two-beam Magneto-optical Trap	Mr TANASANCHAI, Nuttanan
[302] TRIBOLOGICAL CHARACTERIZATION OF ELECTRONIC GRADE LUBRICANTS USING BALL-ON-DISK TRIBOMETER	Ms □JITPHAYOMKUN, Sawanee
[383] Stress-Strain Measurement of Rubber with Optical Moiré Fringes	Mr SRIKLIN, Watthana
[306] Comparison of Characteristics of Hydroxyapatite Powders Synthesized from Cuttlefish Bone via Precipitation and Ball Milling Techniques	FAKSAWAT, Kridsada
[379] Structural and Vibrational Properties of GaAsN Films grown by MOVPE with a Partial Nitrogen Carrier Gas	Mr LAPSIRIVATKUL, Teerapat
[67] Quasinormal Modes of a Massless Charged Scalar Field in the 3+1 Dimensional AdS Reissener-Nordstrom Spactime.	KANJANAPHOMCHOM, panapol
[354] A study of two qubits system with Quantum operator formalism	Ms THAMMASUWAN, Siriratchanee
[357] Electrical properties of two-dimensional zinc oxide in hexagonal, (4,4)-tetragonal, and (4,8)-tetragonal structures by using Hybrid Functional calculation	Mr SUPATUTKUL, Chumpol
[315] First Principles Study of Structural Stability and Electronic Band Structure of Al2C Monolayer and Nanotube	Mr PRAMCHU, Sittichain
[366] Characterization of Structural and Optical Properties of CsI:Tl Crystals With Different Precursor Purity	Mr SINTHAM, Poramin
[371] Annealing Effects on Surface Morphology of IrMn Thin Films	Ms SAWAENGSAI, Kanogkwan
[341] Effect of Cationic ions in mud and Laterite to indigo blue interactions using molecular dynamics simulation	Mr MANEESAI, Keerati
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[14] Position Change of the Moon to showing the Lunar Mansion's Pattern	Mr SUKWISOOT, Adisak
[38] Photometric Investigation of Novae T Pyx, BT Mon and V574 Pup	Dr SURINA, Farung
[224] Beam Dynamic Simulation of the Thermionic RF Electron Gun with Self-generated Cathode Emission	SAISA-ARD, Chaipattana
[352] The study of physical properties of low density sub-Saturn mass exoplanet HAT-P47b	Mr MATEEWATTANAKUL, Jathurawit Ms PADJAROEN, Supichaya
[238] Solar energetic particle propagation from solar flare	Mr BAISRI, Phichayoot
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[290] Rotation Curves and Constraints on Dark Matter Annihilation	Dr WECHAKAMA, Maneenate
[166] Phonon frequencies, Born effective charges and LO-TO splitting of Mg-IV-N\$_2\$ semiconductors	Mr KAEWMEECHAI, Chaiyawat
[133] Air Pollution Estimates from Vehicular Emissions in Amphoe Muang Lampang, Thailand	Ms AUDWING, Pawika Ms POUTONG, Porntiwa

[254] The Relationships Between Wind Speed and Temperature Time Series in Bangkok, Thailand.	Dr THANGPRASERT, Nipon
[278] Thermal Efficiency of Natural Convection Solar Dryer	Ms KHOONPHUNNARAI, Pitchpilai
[348] A preliminary study on identification of Thai rice samples by INAA and statistical analysis	Dr KONGSRI, Supalak
[362] Potential Increasing of Rubber Sheet Production with Fungus Displacement by Solar Tunnel Dryer.	DUNGPHONTONG, Duangkamol
[245] Implementation of a Parallel Simplex Algorithm	NASAWAD, Thanachot
[347] Forbush decreases detected at the Princess Sirindhorn Neutron monitor in the 24\$^{th}\$ Solar Cycle	DEEPROM, MALIWAN
[344] Monte Carlo Production Management in CMS Experiment	CHAHAL, Gurpreet Singh
[386] Determination of \$\omega-\phi\$ mixing at leading order	Mr BAVONTAWEEPANYA, Ruchipas
[345] Measurement of Plasma Parameters of Argon DC Discharge Plasma by Mean of Double Electric Probe	SIRITHIPVANICH, Chatchai
[285] The production \${K^ + }\$ meson in Al+Al collisions at beam energy 1.9A GeV.	Ms TOMUANG, Kristiya
[288] Correlation between Electrical Resistivity and pH of Lateritic Soil	Mr PHOTHARIN, Somkuan
[234] Thermal Characterization of Clay Roof Tile Using Photothermal Deflection Technique	RITTIDACH, Tanawut
[267] Riceberry Grain Standardization Based on Color Distribution and Shape Parameters	Ms KAISAART, Khotchakorn
[205] Construction of Earth's field NMR signal transmission system	Mr YUBONMHAT, Klitsadee
[225] Low-cost standalone multi-sensor thermometer for long time measurements	Mr KUMCHAISEEMAK, Nakorn
[228] Development of measurement system for gauge block interferometer	CHOMKOKARD, Sakchai
[118] Design and Development of Emittance Measurement Device by Using the Pepper-pot Technique	Ms PAKLUEA, Siriwan
[212] Non-contact capacitive sensor for measurements of soil moisture profiles	Mr KUMCHAISEEMAK, Nakorn
[64] Temperature dependence of graphene and N-doped graphene for gas sensor applications	PANYATHIP, Rangsan
[192] Synthesis and characterization of MgO by microwave-assisted thermal oxidation for photocatalytic applications	Dr NILPHAI, Sanpet
[258] Materials selection for Repairing Case Study: Marine propeller shafts	Mr SITTHIPONG, Siva
[331] Giant Dielectric in Sb-Single Doped Rutile-TiO2 Ceramics	Mr BOONKHUANG, Apiwat
[401] Properties of Dried Cultivated Banana Using 3-Shelves Solar Oven	Ms SOFIA, leeming
[292] Schiff Base modified on CPE electrode and PCB gold electrode for selective determination of silver ion	Ms LEEPHENG, Piyawan Dr PHROMYOTHIN, Darinee
[304] Simulation and Experimental Study of Bipolar Plates on The Performance in PEM Fuel Cell	Mr CHINNASA , pornchai
[269] Modeling Disease Spreading Dynamic via Magnetic Ising Spins Distribution: The Stochastic Monte Carlo and Neural Network Analysis	Dr LAOSIRITAWORN, Wimalin
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[125] The Pulsational Analysis of the oEA component of RX Hydrae	Ms A-THANO, Napaporn
[256] Analysis data of sensitive layer and charge collection electrode of monolithic pixel sensors for the ALICE ITS upgrade	POONSAWAT, Wanchaloem
[316] Quantum Oscillation of Conductance and Negative Tunneling Magnetoresistance in Velocity-Modulated Graphene Spin-Valve Device	Mr ZEIN, Husnul Fuad
[28] Synthesis and properties of cobalt ferrite nanoparticles in bacterial cellulose nanofiber scaffold	Ms PHOOPHATHONG, Kanchanok
[29] Effect of Bacterial Cellulose and its Carbon Nanofiber Derivatives Addition on the Compressive Strength of Cement Paste Composite.	Mr PARSE, Nuttawat
[177] Theoretical study of the hydration structure and interaction energy of Sorbitan monostearate (Span60) by using hybrid quantum mechanical/molecular mechanical (QM/MM) method	Mr SHINSUPHAN, Nikorn Dr KRONGSUK, Sriprajak Dr R. JOHNS, Jeffrey
[30] Effect of Carbon Fiber and Nano-Silica Addition on the Microstructure, Electrical and Mechanical Properties of Fly Ash Geopolymer	Mr BOOMPRASERT, Pichainarong
[37] Role of ilmenite micro-inclusion on Fe oxidation state of natural sapphires	Mr MONARUMIT, Natthapong
[305] Microstructural Improvement of Hydroxyapatite-ZrO2 Composite Ceramics via Thermal Precipitation Techniques.	Mr SANGMALA, Aekgaran
[319] Mechanical and Physical Properties of Banana Fiber (Three Species) Reinforced Epoxy Resin Composite	PONGSATHORN, CHamp
[286] Effect of External Economic Field and Market Temperature on Stock-Price Hysteresis and Price-Return Distribution: Monte Carlo simulation on the Ising Agent-Based Model.	Dr LAOSIRITAWORN, Yongyut
[266] Measurement of Side Wall Angles of Magnetic Recording Heads with a Nano-scale Pole Tip using Magnetic Force Microscopy	Ms PHUAGPRAPUN, Achara Mr KERBUT, Chatchai
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[90] Orbital Shapes of Asteroids in Cometary Orbits based on 0.7m Telescope Imaging	Mr DUEANTAKHU, Sittiporn Dr WANNAWICHIAN, Suwicha
[240] The solar energetic particle propagation of solar flare events on the 24th solar cycle	Ms PALUK, Papitchaya
[138] Simulation of Wind Speed and Wind Direction over Urban Structures	Mr WONGJANTA, Natthawut Ms THAMCHAROENRAT, Natnicha
[318] Rainfall Estimation from Radar in different seasons over Northern Thailand	Ms AUMJIRA, Papatsorn
[346] Investigating differences in light stable isotopes between Thai jasmine rice and Sung Yod rice	Dr KUKUSAMUDE, Chunyapuk
[360] Removal of hydrogen sulfide (H2S) from biogas for the community in the province of Maha Sarakham	Mr PINATE, Wasan
[391] Applying Isotope Techniques for Sustainable Development of Groundwater in the Upper Chao Phraya Basin (Bang Rakam area)	Mr KAMDEE, Kiattipong
[398] Atmospheric water vapor: Distribution and Empirical estimation in the Atmosphere of Thailand	Mr PHOKATE, Sayan
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[54] The Effect of Epoxy Molding Compound Floor Life to Reliability Performance and mold ability for QFN Package	Mr PEANPU-NGA, Udom
[57] Warpage of QFN Package in Post Mold Cure Process of integrated circuit packaging	SRIWITHOON, □NATTHA
[184] Reduction of delamination for MSOP Package in die attach process for integrated circuit package	Ms BUNTAM, Tawika
[39] A Study of Star Formation by H\$\alpha\$ Emission of Galaxies in the Galaxy Group NGC 4213	MAUNGKORN, Sakdawoot
[75] Elemental composition analysis of stony meteorites discovered at Phitsanulok, Thailand	Mr LOYLIP, Teerayut
[183] Auroral bright spot in Jupiter's active region in corresponding to solar wind dynamic	WANNAWICHIAN, Suwicha
[270] XMM-Newton observations of the ultraluminous X-ray source NGC 1313 X-1: a super-Eddington accreting black hole	Mr LOEKKESEE, Surasak Ms THONGPOYAI, Kewalin
[317] Photometric Data to Derive an Hertzsprung - Russell Diagram for the Spectral Types of Open Cluster M35	PANPIBOON, Patapong
[61] Schwinger pair creation in graphene wormhole	Mr ROJJANASON, Trithos
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[220] First-principles study of native defects in ZnRh\$_2\$O\$_4\$ spinel	Ms SIMALAOTAO, Kodchakorn
[84] The thermal insulators fabricated from leaves green tea with water hyacinths	Mr SUKSAWAD, Nikorn
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[282] Nature of Seismicity of the Northern Thailand	ANUSORNHIRUNKARN, SUTHASINEE
[289] Determining the appropriate altitude to improve accuracy in rainfall estimation from radar reflectivity data.	Mr LAKKHAM, Manot
[358] Electricity Cogenerator from Hydrogen and Biogas	PINATE, Wasan
[251] A Comparative Study of Gunshot Residue Obtained from M16 and AK47 Rifles for Forensic Science.	Ms POOYOOYEN, Plaifhon Ms SODCHUEN, Saowaluk
[73] Identification of charm quark jets at the CMS experiment	KOVITANGGOON, Kittikul
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[120] Simple system to measure Seebeck effect coefficient at room temperature	Mr BUNDASAK, Angmanee
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