



ORAL PRESENTATION AWARD

GROUP 6

สาขาวิชาฟิสิกส์ พลังงาน ดาราศาสตร์ และวัสดุศาสตร์





CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

**Nisamon Thongham, Suwit Pethauylung, Pornpana Buaphet,
Narit Klompong and Sutthisa Konruang**

for the Oral Presentation entitled

**EFFECT OF POTASSIUM OLEATE ON X-RAY ATTENUATION PROPERTIES OF
NATURAL RUBBER/BARIUM SULFATE COMPOSITE**

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof.Dr.Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

Pitichod Jitkaew, Waranthon Wanichnam, and Pitak Pooljareansin

for the Oral Presentation entitled

DEVELOPMENT OF pH AND HUMIDITY MEASUREMENT AND CONTROL SYSTEMS IN HYDROPONIC PLANTS GREENHOUSES WITH IoT TECHNOLOGY BY BLYNK APPLICATION ON A SMARTPHONE

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof.Dr.Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

**Noppadon Sisuk, Pattanasak Sahavisit, Surat Buran,
Piyaphon Prakhongchai and Kreangsak Promphak**

for the Oral Presentation entitled

RECOGNITION OF SQUAT STRENGTH EXERCISES BASED ON MACHINE LEARNING SYSTEM

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof.Dr.Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

**Kanticha Kankaew, Sataporn Tippayaruck, Jiraphat Phusamlee,
Natha Onintr, Nuttawut Kantham, Natthaphat Thongyoo,
Pornrad Srisawad and Phacharatouch Chaimongkon**

for the Oral Presentation entitled

ANISOTROPIC FLOW IN Au + Au COLLISION AT 1 A GeV
BY USING QUANTUM MOLECULAR DYNAMICS MODEL

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof. Dr. Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

Phicharn Phommajak and Kridsanaphong Limtragool

for the Oral Presentation entitled

THEORETICAL STUDY OF ELECTRICAL PROPERTIES OF TWISTED BILAYER GRAPHENE

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof. Dr. Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

Kanjarat Piamsuwongthong and Priyakorn Rachaprommin

for the Oral Presentation entitled

TRASH SEPARATOR

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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Dean of School of Science, University of Phayao



CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

**Sudarat Tokampang, Nattapong Apirattanon,
Noppadon Sisuk and Kreangsak Promphak**

for the Oral Presentation entitled

MEASUREMENT AND CONTROL SYSTEM FOR WATER AND NUTRIENT SUPPLY

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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Dean of School of Science, University of Phayao



CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

**Noppadon Sisuk, Tada Onkhong, Anucha Kaewpoonsuk,
Pramote Wardkien and Pott Pongpaopattanakul**

for the Oral Presentation entitled

WEARABLE ECG AND HEART RATE RECORDER FOR SMART HEALTHCARE SYSTEMS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF GOOD ORAL PRESENTATION

is awarded to

Chayapat Wiangnaksansuk, Tipwan Suppasat and Niyom Hongsih

for the Oral Presentation entitled

DEVELOPMENT OF A SENSOR SYSTEM FOR MEASURING SOUND FREQUENCY IN BEEHIVES TO ANALYZE THE BEHAVIOR OF BEES AFTER BEING IMPACTED BY EXTERNAL NOISE DISTURBANCE

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof. Dr. Chayan Boonyarak
Dean of School of Science, University of Phayao



CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Nanthapat Chanapai, Phitsanu Poolcharuansi, and Nopphon Saowiang

for the Oral Presentation entitled

**EFFECT OF SOURCE-TO-SUBSTRATE DISTANCE ON RADIAL DISTRIBUTION OF TA-C FILMS IN
FILTERED CATHODIC ARC DISCHARGE**

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Pimchanok Pitakassawakul and Pravej Serichetaphongse

for the Oral Presentation entitled

THE EFFECT OF DIFFERENT FUNCTIONAL MONOMER OF ZIRCONIA PRIMER AND UNIVERSAL ADHESIVE
ON SHEAR BOND STRENGTH OF ZIRCONIA TO COMPOSITE RESIN USING RESIN CEMENT

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Saisunee Jitkla, Kanok Boonkerd and Sirilux Poompradub

for the Oral Presentation entitled

INFLUENCE OF FORMIC ACID CONCENTRATION ON PROPERTIES OF RUBBER RIBBED SMOKED SHEET

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



Associate Prof. Dr. Chayan Boonyarak
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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Dachaphon Kealkaew and Atthakorn Thongtha

for the Oral Presentation entitled

INTEGRATING PHASE CHANGE MATERIALS TO THE SHERA WOOD WALL
FOR IMPROVING THE EFFICIENCY OF HEAT TRANSMISSION REDUCTION

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Nattapon Kongwattana, Kaokanya Sudprasert and Chakrit Tachaapaikoon

for the Oral Presentation entitled

STUDY OF PRODUCTION OF 5-HYDROXYMETHYLFURFURAL FROM CORN COBS
BY DEHYDRATION REACTION USING FORMIC ACID AND SODIUM HYDROXIDE AS REAGENTS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

**Rapatpon Thakonprajak, Wachira nukaew,
Anupoom tatiwan and Aukrit natkaeo**

for the Oral Presentation entitled

INVESTIGATION OF FIRE RESISTANCE AND PHYSICAL PROPERTIES OF
REFRACTORY BRICK USING OIL PALM BUNCH

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Sasiwimon Kaewthongsorn, Sutthisa Konruang and Pornpana Buaphet

for the Oral Presentation entitled

PREPARATION OF CELLULOSE SEPARATOR FOR LITHIUM-ION BATTERY
FROM RED WATER LILY AND WATER HYACINTH FIBERS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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Dean of School of Science, University of Phayao



CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Anucha Kaewpoonsuk

for the Oral Presentation entitled

MOIRÉ FRINGES ANALYSIS OF PARALLEL GRATINGS BY ELIMINATING
THE EFFECT OF HIGH FREQUENCY COMPONENTS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Patharacha Kongchana and Panupong Jaiban

for the Oral Presentation entitled

THE BIOFILM-BASED TRIBOELECTRIC GENERATOR FROM DURIAN PEEL

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Prangwilai Phuttami and Panupong Jaiban

for the Oral Presentation entitled

TRIBOELECTRIC GENERATOR FROM THE NATURAL RUBBER

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Nattapon Kongtaworn and Panupong Jaiban

for the Oral Presentation entitled

ELECTRIC ENERGY HARVESTING FROM MECHANICAL FORCE BY CASSAVA BIOPLASTIC FILMS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

**Wannapa Khamjeen, Panadda Sittiketkorn, Lalana Nunthagornpituk,
Sutaphat Phansuwan, Nutkamol Suwannasri, Oraorn Kaewchot,
Kristiya Tomuang, Natthaphat Thongyoo, Yaphakhakorn Chaimongkon,
Pornrad Srisawad and Phacharatouch Chaimongkon**

for the Oral Presentation entitled

**COLLECTIVE EXPANSION OF K^+ MESONS IN HEAVY-ION COLLISIONS ON THE EFFECT OF
IN-MEDIUM KAON POTENTIAL AND THE NUCLEAR EQUATION OF STATE**

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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Dean of School of Science, University of Phayao



CERTIFICATE OF EXCELLENT ORAL PRESENTATION

is awarded to

Kanjarat Piamsuwongthong and Priyakorn Rachaprommin

for the Oral Presentation entitled

HEART RATE AND BLOOD OXYGEN SATURATION MONITOR BASED ON IoT

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Tosapol Maluangnont

for the Oral Presentation entitled

TEMPERATURE DEPENDENCE OF AC ELECTRICAL PROPERTIES
IN GRAPHITIC CARBON NITRIDE COMPACT

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

**Nattapong Apirattanon, Sudarat Tokampang,
Noppadon Sisuk and Kreangsak Promphak**

for the Oral Presentation entitled

DEVELOPMENT OF AN APPLICATION TO MEASURE ARTERIAL OXYGEN SATURATION AND
MONITOR FALLS IN THE ELDERLY USING ML AND IoT

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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Dean of School of Science, University of Phayao



CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

**Sutthisa Konruang, Tanyawan Rodpayung , Thawatchai Tepnual ,
Pornpana Buaphet and Narit Klompong**

for the Oral Presentation entitled

**STUDY OF PHYSICAL PROPERTIES AND GAMMA-RAY SHIELDING PROPERTIES OF
NATURAL RUBBER /CALCIUM CARBONATE COMPOSITE**

presented in 14th Science Research Conference held on 25-26 May 2023
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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Nirun Witit-anun and Adisorn Buranawong

for the Oral Presentation entitled

**INFLUENCE OF ALUMINIUM CONTENTS ON THE STRUCTURE AND HARDNESS OF
CHROMIUM ALUMINIUM NITRIDE THIN FILMS**

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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Dean of School of Science, University of Phayao



CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

**Viruntachar Kruefu, Kata Jaruwongrungee,
Narong Chanlek and Anurat Wisitsoraat**

for the Oral Presentation entitled

EFFICIENT DETECTION OF SO₂ GAS USING rGO/SnO₂ NANOCOMPOSITES-BASED SENSORS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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Dean of School of Science, University of Phayao



CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

**Chayapon Iemsonthi, Seksit Lorwilai, Panuwit Sankaokam
Orapin Riyaprao and Cherdsak Saelee**

for the Oral Presentation entitled

THE OFF-CARDINAL ALIGNMENT OF CHIANG MAI'S CITY PLAN IN RELATION TO THE ORION'S BELT

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Araf Laerosa, Siriporn Pradit, Montri Luengchavanon and Prakrit Noppradit

for the Oral Presentation entitled

**OPTICALLY STIMULATED LUMINESCENCE DATING REVEALED THE LATE QUATERNARY
COASTAL SEDIMENTS IN SONGKHLA COAST, THAILAND**

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Pongsak Khokhuntod, Ratchanoo Katman and Attapon Amthong

for the Oral Presentation entitled

THE EFFECTS OF INITIAL NUMBERS OF DICE ON DECAY CONSTANT

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Paradorn Pakdeevanich, Sittisak Jaiyindee and Kanok Hournkumnuard

for the Oral Presentation entitled

APPLYING OPTICAL TECHNIQUE TO DETERMINE VALUE OF YOUNG'S MODULUS

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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CERTIFICATE OF OUTSTANDING ORAL PRESENTATION

is awarded to

Passara Suwanasing, Kanoktip Boonkerd and Sirilux Poompradub

for the Oral Presentation entitled

PROCESS OPTIMIZATION OF RECLAIMED RUBBER PREPARATION FROM TIRE WASTE

presented in 14th Science Research Conference held on 25-26 May 2023
at the School of Science, University of Phayao.



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