

The 2018 International Conference on Research and Learning of Physics (ICRLP 2018)

Padang, August, 9-10, 2018

Day 1: Thursday, August 9th, 2018

Plenary Session

| Time | Program | Venue |
|---------------|---|-------------------|
| 07.00 – 08.00 | Registration | Auditorium of UNP |
| 08.00 – 09.30 | <ul style="list-style-type: none"> • Opening Ceremony • Pasambahan Dance • Holy Al-Quran Recitation • Indonesia National Anthem • Welcome Address by Head of ICRLP 2018 • Welcome Message by Dean of FMNS UNP • Opening Remark by Rector of UNP • Prayer • Photo Session | Auditorium of UNP |
| 09.30 – 10.00 | Coffee Break and Dance | Auditorium of UNP |
| 10.00 – 11.00 | Plenary Session 1 : Prof. Kohji Nakamura (Mie University, Japan) | Auditorium of UNP |
| 11.00 – 12.00 | Plenary Session 2 : Prof. Dr. Wawan Gunawan A Kadir, MS (Bandung Institute of Technology, Indonesia) | Auditorium of UNP |
| 12.00 – 13.30 | Lunch | Auditorium of UNP |
| 13.30 – 15.30 | Parallel Session Invited Speaker 1 : Ass. Prof Caroline Bouvet De La Maisonneuve, Ph.D (Nanyang Technological University, Singapore) Invited Speaker 2 : Yohandri, Ph.D (Universitas Negeri Padang, Indonesia) | Classroom |
| 15.30 – 16.00 | Coffee Break | Classroom |
| 16.00 – 18.00 | Parallel Session | Classroom |
| 18.00 – 17.00 | Break | Classroom |
| 19.00 – 21.00 | Galadiner | Classroom |

Day 2: Friday, August 10th, 2018

Plenary Session

| Time | Program | Venue |
|---------------|---|-----------------------|
| 08.00 – 09.00 | Plenary Session 3 : Prof. Dr. Andrivo Rusydi (National University of Singapore, Singapore) | Auditoium of FMNS UNP |
| 09.00 – 09.30 | Coffee Break | Auditoium of FMNS UNP |
| 09.30 – 10.30 | Plenary Session 4 : Ass. Prof. Dr. Nurulhuda Abd Rahman (Universiti Pendidikan Sultan Idris, Malaysia) | Auditoium of FMNS UNP |
| 10.30 – 11.30 | Parallel Session Invited Speaker 3 : Prof. Dr. Rosly Jaafar (Universiti Pendidikan Sultan Idris, Malaysia) | Classroom |
| 11.30 – 13.30 | Lunch | Classroom |
| 13.30 – 15.30 | Parallel Session | Classroom |
| 15.30 – 16.00 | Coffee Break | Classroom |

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Day 1: Thursday, August 9th, 2018

Gala Diner Session

| Time | Program | Venue |
|---------------|------------------------------|-------------------|
| 19.00 – 19.30 | Registration | Auditorium of UNP |
| 19.30 – 19.40 | Opening Performance | Auditorium of UNP |
| 19.40 – 19.50 | Welcome Speech by Chairman | Auditorium of UNP |
| 19.50 – 20.00 | Welcome Speech by Dean FMIPA | Auditorium of UNP |
| 20.00 – 20.10 | Welcome Speech by Rector UNP | Auditorium of UNP |
| 20.10 – 20.30 | Dinner (Music accompanient) | Auditorium of UNP |
| 20.30 – 20.40 | Performance Dance | Auditorium of UNP |
| 20.40 – 20.50 | Performance Dance | Auditorium of UNP |
| 20.50 – 21.00 | Ending and Photo | Auditorium of UNP |

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Moderator : Silvi Elvionita

Notulen : Fitra Ayu

Parallel Session

ROOM 1

| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|-------------------------|--|---|
| 1. | 14.00-14.15 | 020 ICRLP 2018 | Rindi Genesa Hatika | MERCURY ANALYSIS ON THE AREA AROUND THE ILLEGAL GOLD MINE IN KUANTAN RIVER | Universitas Pasir Pengaraian |
| 2. | 14.15-14.30 | 003 ICRLP 2018 | Azlan M.N | Effect of Nd ³⁺ ions in polarizability of borotellurite glasses for photonic applications | Universiti Pendidikan Sultan Idris |
| 3. | 14.30-14.45 | 006 ICRLP 2018 | Mitrayana | Detection of Ammonia Gas (NH ₃) Respiratory As Bio-Marker Gases Kidney Failure and Cirrhosis Using High Sensivity Laser Photoacoustic Spectrometer | Physics Society of Indonesia |
| 4. | 14.45-15.00 | 039 ICRLP 2018 | Adi Syahputra Purba | The Improvement of Natural Zeolite Pahae Adsorption Power Hydrogen Filter by Compounded The Shell of Anadara Granosa Filler | Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Sumatera Utara, Medan |
| 5. | 15.00-15.15 | 186 ICRLP 2018 | Bambang Hermawan | Effects of in-situ flame retardant treatment on the mechanical and thermal properties of OPEFB crude fiber | Bogor Agricultural University |
| 6. | 15.15-15.30 | 214 ICRLP 2018 | Muhammad Khoir Syahbana | Manufacture and Characterization of Conductive Bioplastics Based On CMC/Chitosan/ZnO Composite As Application of Diabetes Mellitus Sensor Through Skin Surface | Department of Physics, Faculty of Mathematic and Natural Science, University of Sumatera Utara |
| 15.30-16.00 | | | Coffe Break | | |
| 7. | 16.00-16.15 | 215 ICRLP 2018 | Sri Oktavia | Fabrication And Characterization Of Coffee Grounds/ZnO | Nursing Science, Faculty of |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-------------|----------------|----------------------|--|---|
| | | | | Composite As Application Of Asthma Monitoring Sensor | Nursing, University of Sumatera Utara |
| 8. | 16.15-16.30 | 219 ICRLP 2018 | Azlan M.N | Effect of Nd ³⁺ ions in polarizability of borotellurite glasses for photonic applications | Physics Department, Faculty of Science and Mathematics, Sultan Idris Education University |
| 9. | 16.30-16.45 | 161 ICRLP 2018 | Febriati Nanda | The Influence Of Type Of Zeolite to The Sensitivity Of The Sensor Material For Detecting Non-enzymatic Glucose | Universitas Andalas |
| 10. | 16.45-17.00 | 163 ICRLP 2018 | Rahma Yulis | Effect of Na ₂ SO ₄ Concentration on Indoor Lights Photovoltaic Ability | Chemistry Department, Universitas Negeri Padang |
| 11. | 17.00-17.15 | 165 ICRLP 2018 | Arizka Tamarani | Preparation and Characterization of XRD Nano Cu-TiO ₂ with Sol Gel Method | Chemistry Department, Universitas Negeri Padang |
| 12. | 17.15-17.30 | 238 ICRLP 2018 | Mirza Muhammad Waqar | Assessing Performance of L-Band SAR Backscatter for Above Ground Forest Biomass Estimation Over Complex Topography | Center for Environmental Remote Sensing, Chiba University |

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Moderator : Nadya Mahardika

Notulen : Tri Septiani

Parallel Session

ROOM 2

| No | Time | ID | Presenter | Title | Affiliation |
|----|-------------|----------------|---------------------------|--|--|
| 1. | 14.00-14.15 | 181 ICRLP 2018 | Peberlin P Sitompul | Design and Progress of Nano Satellite for Ionospheric Mission | Chiba University, LAPAN |
| 2. | 14.15-14.30 | 036 ICRLP 2018 | Andi Feriyono | The Design and Implementation of an Instrument for Converting Angular Velocity to Linear Velocity Based on Arduino ATmega 2560 | Universtas Tadulako |
| 3. | 14.30-14.45 | 040 ICRLP 2018 | Wawan Kurniawan | MEASUREMENT OF ASYMMETRICAL HOMOGENEOUS OBJECT BY USING CHAIN CODE ALGORITHM AND VIRTUAL CENTER OF GRAVITY | Physics Education of Jambi University |
| 4. | 14.45-15.00 | 067 ICRLP 2018 | Pardomuan Siregar | Oil Palm Germinator with Automatic Temperature and Humidity Control | Integrated Laboratory Universitas Sumatera Utara , Department of Physics, Universitas Sumatera Utara |
| 5. | 15.00-15.15 | 069 ICRLP 2018 | Muhammad Rashidi Ab Razak | Fabrication of Fluidic Based Capacitive Pressure Sensor Using Printed Circuit Board and Soft Lithography Process | Department of Physics, Faculty of Science and Mathematics Sultan Idris Education University |
| 6. | 15.15-15.30 | 073 ICRLP 2018 | Rizky Indah Sari | Early Detection of Diabetes Mellitus Through the Breath Using the MQ-138 Sensor on a Mobile System | Integrated Laboratory Universitas Sumatera Utara, Department of Physics, Universitas |

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|-------------|-----------------|-------------------|---------------------|---|---|
| | | | | | Sumatera Utara |
| 15.30-16.00 | | | Coffe Break | | |
| 7. | 16.00- 16.15 | 096 ICRLP 2018 | Siti Khanifah | Automatic Watering System Based on Soil Moisture Parameters for The Wax Apple (<i>Syzygium samarangene</i>) in Pots on The Rooftop | Department of Physics, Faculty of Mathematics and Natural Science, Universitas Sumatera Utara |
| 8. | 16.15- 16.30 | 136 ICRLP 2018 | Haerul Pathoni | Induction Voltages Square and Triangle Solenoida as Alternatives Electrical Energy Resources | Education Physics Study Program, Education and Teacher Training Faculty, Jambi University |
| 9. | 16.30- 16.45 | 180 ICRLP 2018 | Mohammad Nasucha | Computation Calibration on Distance Measurement in an Ultrasonic Remote Sensing Device | Center for Environmental Remote Sensing, Chiba University |
| 10. | 16.45- 17.00 | 210 ICRLP 2018 | Lazuardi Umar | Self-Adjusted of Direct Digital Synthesizers Signal Based on Automatic Gain Control for Soil Nutrient Measurement | Department of Physics FMNS University of Riau |
| 11. | 17.00- 17.15 | 211 ICRLP 2018 | Lazuardi Umar | Influence of Stimulated Light Color on Cellular Respiration from Photosyntheses Activity of <i>Chlorella Kessleri</i> Algae | Department of Physics FMNS University of Riau |
| 12. | 17.15- 17.30 | 095 ICRLP 2018 | Sepannur Bandri | Implementation of Algorithm Peturb Observe to increase the power output of solar panels using MPPT | Padang Institute of Technology |

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Moderator : Fitri Nisak

Notulen : Zaitul Hidayat

Parallel Session

ROOM 3

| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|----------------------------------|---|--|
| 1. | 14.00-14.15 | 024 ICRLP 2018 | Francesca Forni | New insights into the origin of Danau Kerinci, Danau Diatas and Danau Maninjau, (Sumatra, Indonesia) from geophysical investigation of the uppermost sedimentary lake structure | Asian School of Environment, NTU, Singapore |
| 2. | 14.15-14.30 | 015 ICRLP 2018 | Nur Islami | A preliminary study of geothermal resources in the Rohul Regency, Riau, Indonesia | Physics Education - FKIP, Universitas Riau |
| 3. | 14.30-14.45 | 016 ICRLP 2018 | Joko Widodo | Land subsidence rate analysis of Jakarta Metropolitan Region based on D-InSAR processing of Sentinel data C-Band frequency | Center for Environmental Remote Sensing, Chiba University |
| 4. | 14.45-15.00 | 059 ICRLP 2018 | Pakhrur Razi | Ground Deformation Measurement of Sinabung Vulcano Eruption using DInSAR Technique | Universitas Negeri Padang, Indonesia, Center for Environmental Remote Sensing, Chiba University, Japan |
| 5. | 15.00-15.15 | 099 ICRLP 2018 | Husnul Hamdi | FORMULATION OF FULL SOLUTION EQUATIONS IN THE CONTROLLED SOURCE AUDIO-FREQUENCY MAGNETOTELLURIC (CSAMT) METHOD | Institut Teknologi Bandung |
| 6. | 15.15-15.30 | 102 ICRLP 2018 | Immanuel Jhonson Arizona Saragih | The Response of Sea Surface Temperature (SST) during The Occurrence of Tropical Cyclone Dahlia in Indonesian Maritime Continent | Indonesian School of Meteorology Climatology and Geophysics |
| 15.30-16.00 | | | Coffe Break | | |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-------------|----------------|--|---|---|
| 7. | 16.00-16.15 | 105 ICRLP 2018 | Andreas Kurniawan Silitonga | Analysis Conditions Of Precipitation When The Heavy Rain In West Kalimantan Province (Case Study 10-13 Date January 2018) | Sekolah Tinggi Meteorologi Klimatologi dan Geofisika |
| 8. | 16.15-16.30 | 160 ICRLP 2018 | Zullinira Dwi Utami | The Estimation of Geothermal Reservoir Temperature Using Geothermometer Equation in Cubadak Area, Pasaman Regency, West Sumatera, Indonesia | Physics of andalas university |
| 9. | 16.30-16.45 | 229 ICRLP 2018 | Nur Islami | Geoelectrical Resistivity Survey for Subsurface Investigation in Karst Area | Universitas Riau |
| 10. | 16.45-17.00 | 101 ICRLP 2018 | Immanuel Jhonson Arizona Saragih, Aries Kristianto and Paulus Agus Winarso | The Response of Sea Surface Temperature during The Occurrence of Tropical Cyclone Dahlia in Indonesian Maritime Continent | Indonesian School of Meteorology Climatology and Geophysics (STMKG) |
| 11. | 17.00-17.15 | 176 ICRLP 2018 | Dony Permana | A Shortest Path Problem for Tsunami Evacuation in Padang City usint Flyod-Warshall Algoritm | Mathematics Department, Universitas Negeri Padang |
| 12. | 17.15-17.30 | 179 ICRLP 2018 | Hamdi Rifai | Preliminary study of exploring volcanic eruption activities from the magnetic properties of sediments. | Universitas Negeri Padang |

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Moderator : Siti Riva Darwata

Notulen: Nopem Trio

Parallel Session

ROOM 4

| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|---------------------|--|--|
| 1. | 14.00-14.15 | 005 ICRLP 2018 | Vina Serevina | Developing High Order Thinking Skills (HOTS) Assessment Instrument for Static Fluid at Senior High School | State University of Jakarta |
| 2. | 14.15-14.30 | 007 ICRLP 2018 | Dewi Sartika | Developing a Learning Device Oriented Metacognitive Strategies for Problem Solving of Physics Teacher Candidates | Universitas Sulawesi Barat |
| 3. | 14.30-14.45 | 011 ICRLP 2018 | Venny Haris | Developing LabView-Based Experimental Simulation Application on Teaching Materials of Gas Kinetic Theory in Senior High School | Department of Physics Education IAIN Batusangkar |
| 4. | 14.45-15.00 | 012 ICRLP 2018 | Novia Lizelwati | DEVELOPING INSTRUCTIONAL DEVICES OF GENERAL PHYSIC PRACTICUM INTEGRATED WITH AL-QURAN FOR DEPARTMENT OF PHYSICS EDUCATION IAIN BATUSANGKAR | IAIN Batusangkar |
| 5. | 15.00-15.15 | 013 ICRLP 2018 | Lisah Andriyani | The Development of Physics Laboratory Worksheet on Optical Materials by Modified Inquiry Learning Approach | state university of jakarta |
| 6. | 15.15-15.30 | 017 ICRLP 2018 | Endang Purwaningsih | TPACK from Prospective Physics Teacher to Ease the Achievement of Learning Objectives: Case Study at State University of Malang, Indonesia | Universitas Negeri Malang |
| 15.30-16.00 | | | Coffe Break | | |
| 7. | 16.00-16.15 | 018 ICRLP 2018 | Iskandar | Optimalyizing inquiry activity trough blanded learning to improve scientific literacy on the | Faculty of Science and Technology, |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-------------|----------------|----------------------|---|---|
| | | | | students senior High School | Universitas Islam Negeri Sulthan Thaha Saifuddin Jambi, Indonesia |
| 8. | 16.15-16.30 | 019 ICRLP 2018 | Fairus Desniarsyah | The Development of Circular Motion Magnetic Sensor Based Practice Tool for High School Students | universitas negeri jakarta |
| 9. | 16.30-16.45 | 021 ICRLP 2018 | Anisah | Augmented Reality Water Rocket Book: Enhancing the Secondary School Student Literacy on Physics | Universitas Negeri Jakarta |
| 10. | 16.45-17.00 | 123 ICRLP 2018 | Dwivelia Aftika Sari | Development of Problem Based Learning Module on Electrolyte and Nonelectrolyte Solution to Improve Critical Thinking Ability | Universitas Negeri Padang |
| 11. | 17.00-17.15 | 172 ICRLP 2018 | Restu Desriyanti | Validity and Practicality of Redox Reaction Module Based on Discovery Learning with Scientific Approach to Increase the Critical Thinking Ability of 10th Grade High School Students | Chemistry Department, Universitas Negeri Padang |
| 12. | 17.15-17.30 | 174 ICRLP 2018 | Sowel Ihami | Validity and Practicality of Salt Hydrolysis Module Based on Discovery Learning with Scientific Approach to Increase the Critical Thinking Ability of 11th Grade High School Students | Chemistry Departement, Universitas Negeri Padang |

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Day 1: Thursday, August 9th, 2018

Moderator : Rahmi Agustia W.

Notulen : Mona Trisna Cahyati

Parallel Session

ROOM 5

| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|----------------------|--|--|
| 1. | 14.00-14.15 | 034 ICRLP 2018 | Rendy Wikrama | DESCRIPTION STUDENTS' CONCEPTION AND KNOWLEDGE STRUCTURE ON ELECTROMAGNETIC CONCEPT | Physic Education Jambi University |
| 2. | 14.15-14.30 | 035 ICRLP 2018 | Adi Pramuda | Toward a Model of Traditional-Technology Resystemmed and Aligned on Concept Exploration with Smartphone Sensor | IKIP-PGRI Pontianak, Student of Postgraduate Program Universitas Negeri Yogyakarta |
| 3. | 14.30-14.45 | 037 ICRLP 2018 | Maison | DIAGNOSING SENIOR HIGH SCHOOL PHYSICS TEACHERS' MISCONCEPTION ABOUT ELECTRIC CIRCUIT USING A FOUR-TIER INSTRUMENT | Jambi University |
| 4. | 14.45-15.00 | 038 ICRLP 2018 | Yanty Purnama Sari | Development E-Module for Fluids Based on Problem Based Learning (PBL) in Senior High School | Physics Education |
| 5. | 15.00-15.15 | 041 ICRLP 2018 | Nur Devia Muharramah | The Development of Newton's Law Encyclopedia Based on Advance Organizer | Universitas Negeri Jakarta |
| 6. | 15.15-15.30 | 068 ICRLP 2018 | Supriyono Koes-H | Nurturing Higher Order Thinking Skills Through Visual Scaffolding in Group Investigation | State University of Malang |
| 15.30-16.00 | | | Coffe Break | | |
| 7. | 16.00-16.15 | 077 ICRLP 2018 | Karlina Arti Suprpto | Development of Electronic Modules Based on Problem Based Learning on Wave Topic to Improve Literacy of Science of Senior High School | Department of Physics, Faculty of Mathematics and Sciences, |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-------------|----------------|--------------------------|---|--|
| | | | | | Universitas Negeri Jakarta |
| 8. | 16.15-16.30 | 080 ICRLP 2018 | Tanti | LEARNING ENVIRONMENT, STUDENTS' BELIEFS, AND SELF-REGULATION IN LEARNING PHYSICS | Universitas Islam Negeri Sulthan Thaha Saifuddin |
| 9. | 16.30-16.45 | 081 ICRLP 2018 | Hilary Fridolin Lipikuni | Development of Mobile Learning in Worksheet Wave Materials to Increase Learning Learners Participants in Senior High School | JAKARTA STATE UNIVERSITY |
| 10. | 16.45-17.00 | 198 ICRLP 2018 | Andromeda | Effectiveness of Chemical Equilibrium Module Based on Guided Inquiry Integrated Experiments toward Science Process Skills of High School Students | Universitas Negeri Padang |
| 11. | 17.00-17.15 | 202 ICRLP 2018 | Sutri Andriani | STUDENT CAPABILITIES APPLYING BIOTECHNOLOGY SCIENCE IN ENTREPRENEURSHIP | Universitas Negeri Padang |
| 12. | 17.15-17.30 | 203 ICRLP 2018 | Putri Qalbina | Characteristics Of Biotechnology Teaching Materials that Generally Used by The Education Students of Biology in Padang City | Universitas Negeri Padang |

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Day 1: Thursday, August 9th, 2018

Moderator : Dina Trisia Irdayasa

Notulen: Hayyu Yumna

Parallel Session

ROOM 6

| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|--------------------------------------|--|--|
| 1. | 14.00-14.15 | 205 ICRLP 2018 | Riskan Qadar | Analysis of Scientific Learning Implementation By Science Teachers In Samarinda | MULAWAR MAN UNIVERSIT Y |
| 2. | 14.15-14.30 | 222 ICRLP 2018 | Mohd Ikhwan Hadi Yaacob | PhotoBUZZ :Practical Light Experimental Kit for Visually Impaired Students. | Universiti Pendidikan Sultan Idris |
| 3. | 14.30-14.45 | 223 ICRLP 2018 | Riskan Qadar | Analysis of Scientific Learning Implementation By Science Teachers In Samarinda | MULAWAR MAN UNIVERSIT Y |
| 4. | 14.45-15.00 | 230 ICRLP 2018 | Nursyamsi | Development of Interactive Multimedia Based On Guided Discovery For Newton Law's Material That Effective | SMA N 1 VII Koto Sungai Sarik |
| 5. | 15.00-15.15 | 010 ICRLP 2018 | Nurul Syafiqah Yap Abdullah Abdullah | i-Virtual Lab Kit with microcomputer-based laboratory (MBL) system for Basic Electronics | Universiti Pendidikan Sultan Idris |
| 6. | 15.15-15.30 | 002 ICRLP 2018 | Bahril Ilmiwan | DEVELOPMENT OF AUTHENTIC ASSESSMENT THAT BASED ON SCIENTIFIC APPROACH TO IMPROVE STUDENTS' SKILLS OF SCIENCE PROCESS IN PHYSICS LEARNING | Mathematics and Science Faculty of Padang State University |
| 15.30-16.00 | | | Coffe Break | | |
| 7. | 16.00-16.15 | 218 ICRLP 2018 | Mohd Rozni Md Yusof | VPython for Physics Education | Universiti Pendidikan Sultan Idris |
| 8. | 16.15-16.30 | 115 ICRLP 2018 | Fisa Wisnu Wijaya | development of e-modules problem-based learning on work and energy materials to improve high-order thinking skills | Universitas Negeri Jakarta |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-----------------|-------------------|------------------------|--|--|
| 9. | 16.30- 16.45 | 204 ICRLP 2018 | Rahmi Kurniati | The Insight of Biology Student to Current Biotechnology Issues | Universitas Negeri Padang |
| 10. | 16.45- 17.00 | 221 ICRLP 2018 | Yaswinda | DEVELOPMENT LEARNING PROGRAM OF SCIENCE (PHISIC) BASED ON MULTISENSORY- ECOLOGY IN EARLY CHILDHOOD EDUCATION | Universitas Negeri Padang |
| 11. | 17.00- 17.15 | 008 ICRLP 2018 | Ayu Lusiyana | Multiple Representation Approach Based on ICT to Solving Problems in Physics Learning | Universitas Negeri Padang |
| 12. | 17.15- 17.30 | 192 ICRLP 2018 | Ilham Akerda Edyyul | The Readiness of Special School Teachers in Padang City in the Implementation of Disaster Risk Reduction Learning for Students with Hearing Impairments | Postgraduate Special Needs Education Yogyakarta State University |

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Day 1: Thursday, August 9th, 2018

Moderator : Novella Prima

Notulen : Yosa Aulia P.

Parallel Session

ROOM 7

| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|-----------------------|--|--|
| 1. | 14.00-14.15 | 032 ICRLP 2018 | Eka Lestari Ardiyanti | The Development of Optical Instruments Encyclopedia based on Problem Based Learning | state university of Jakarta |
| 2. | 14.15-14.30 | 033 ICRLP 2018 | Soka Hadiati | The Comprehensif Physics Laboratory Work With Model Based Reasoning To Improve 21st Century Competence | IKIP PGRI Pontianak, Student of Postgraduate Program Universitas Negeri Yogyakarta |
| 3. | 14.30-14.45 | 200 ICRLP 2018 | Afiq Agung | Idea-Phyrlab Development (Physical Learning Media Based On Virtual Laboratory on Ideal Gas Equation). | Lembaga Penelitian Mahasiswa Penalaran Universitas Negeri Makassar |
| 4. | 14.45-15.00 | 201 ICRLP 2018 | Afiq Agung | Development of e-Learning Based Instructional Materials in Fundamental Physics Course at Biology Department FMIPA UNM. | Lembaga Penelitian Mahasiswa Penalaran Universitas Negeri Makassar |
| 5. | 15.00-15.15 | 026 ICRLP 2018 | Zainal Hartoyo | Motivation of Muslim Students in Physics Learning | State Islamic University of Sulthan Thaha Saifuddin Jambi |
| 6. | 15.15-15.30 | 029 ICRLP 2018 | Zilfia Zulkarnain | Development of Work and Energy Encyclopedia Based on Science Technology Society | Universitas Negeri Jakarta |
| 15.30-16.00 | | | Coffe Break | | |
| 7. | 16.00-16.15 | 031 ICRLP 2018 | Syuhendri | Student teachers' misconceptions about gravity | Universitas Sriwijaya |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-----------------|-------------------|--------------------------|---|---|
| 8. | 16.15- 16.30 | 131 ICRLP 2018 | Fibrika Rahmat Basuki | Identification of Potential Local Wisdom of Senamat Ulu Village (Desa Mandiri Listrik) as a Source of Science Learning | Jambi University |
| 9. | 16.30- 16.45 | 079 ICRLP 2018 | Widya Widya | The Readiness of Special School Teachers in Padang City in the Implementation of Disaster Risk Reduction Learning for Students with Hearing Impairments | College of Teacher Training and Education of Adzkie Padang, Indonesia |
| 10. | 16.45- 17.00 | 175 ICRLP 2018 | Abna Hidayati | THE ANALYSIS OF INFLUENCING FACTORS OF LEARNING STYLES, TEACHER'S PERCEPTIONS AND THE AVAILABILITY OF LEARNING RESOURCES IN ELEMENTARY SCHOOLS IN PADANG, WEST SUMATERA | Universitas negeri padang |
| 11. | 17.00- 17.15 | 178 ICRLP 2018 | Ririn Ade Lestari | Validity and Practicality of Buffer Solution Module Based on Discovery Learning with a Scientific Approach to Increase the Critical Thinking Ability of 11th Grade High School Students | Universitas Negeri Padang |
| 12. | 17.15- 17.30 | 195 ICRLP 2018 | Yerimadesi | Effectiveness of Acid-Base Modules Based on Guided Discovery Learning toward Student Critical Thinking Skills | Universitas Negeri Padang |

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Day 2: Friday, August 10th, 2018

Moderator : Faradilla

Notulen : Ayu Melati

Parallel Session

ROOM 1

| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|-----------------|---|---------------------------|
| 1. | 13.30-13.45 | 189 ICRLP 2018 | Zulyusri | Pathogenicity of Entomopatogenic Fungi Isolates from Infected Pest Crop Against Dry Wood Termites <i>Cryptotermes</i> Sp. (Isoptera:Kalotermitidae) | Universitas Negeri Padang |
| 2. | 13.45-14.00 | 190 ICRLP 2018 | Ananda Putra | Synthesis and Characterization of Bacterial Cellulose-Betel Leaf Extract (<i>Piper Betle</i> L.) Hydrogel Composite | Universitas Negeri Padang |
| 3. | 14.00-14.15 | 196 ICRLP 2018 | Ali Amran | Solubility dynamic of methyl red and methylene blue in microemulsions and lamellar liquid crystal of water, non ionic surfactant and cyclohexane system | Universitas Negeri Padang |
| 4. | 14.15-14.30 | 199 ICRLP 2018 | Armen | MAKING FISH FEED BY FARMERS WIFE IN NAGARI LIMAU GADANG | Universitas Negeri Padang |
| 5. | 14.30-14.45 | 207 ICRLP 2018 | Abdul Razak | Biophysics Process and Variation Visual Pigment Photoreceptors of eyes fishes : (A review) | Universitas Negeri Padang |
| 6. | 14.45-15.00 | 001 ICRLP 2018 | Ramli | Microstructure and Optical Properties of Fe ₃ O ₄ Thin Film from Natural Iron Sand | Universitas Negeri Padang |
| 7. | 15.00-15.15 | 046 ICRLP 2018 | Heri Prabowo | INVESTIGATION OF CHEMICAL FEASIBILITY AND DISTRIBUTION OF IRON SAND OF PADANG PARIAMAN BEACH FOR CEMENT RAW MATERIAL IN PT. SEMEN PADANG | universitas negeri padang |
| 8. | 15.15-15.30 | 048 ICRLP 2018 | Rahadian Zainul | Fabrication of Hexagonal Photoreactor Indoors Lights | Universitas Negeri Padang |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00- | 022 ICRLP | Skunda | The Effect of Agricultural | FMIPA, |

The 2018 International Conference on Research and Learning of Physics (ICRLP 2018)

Padang, August, 9-10, 2018

| No | Time | ID | Presenter | Title | Affiliation |
|-----|-------------|----------------|-------------------|--|---------------------------|
| | 16.15 | 2018 | Diliarosta | Extension For Improvement Environmental Behavior By Vegetable Farmer in Padang City | Universitas Negeri Padang |
| 10. | 16.15-16.30 | 120 ICRLP 2018 | Sarimai | Effect of CuO Composition Variation on The Hydrophobic Properties of a Thin Layer Of CuO/Polystyrene Nanocomposite | Universitas Negeri Padang |
| 11. | 16.30-16.45 | 147 ICRLP 2018 | Ratnawulan | EFFECTS OF HEAVY METALS ON COEFFICIENT OF INHIBITION AND ACTIVATION OF FIREFLY BIOLUMINCENCE | Universitas Negeri Padang |
| 12. | 16.45-17.00 | 148 ICRLP 2018 | Yenni Darvina | Mechanochemical Synthesis of Magnetite Nanoparticles from Iron Sand | Universitas Negeri Padang |
| 13. | 17.00-17.15 | 194 ICRLP 2018 | Bevi Lidia | Synthesis and Characterization of Thin Film Hausmannite (Mn ₃ O ₄) by Spin Coating Method | UNP |
| 14. | 17.15-17.30 | 209 ICRLP 2018 | Tia Adriany Putri | Effect Of Temperature Variation On The Layer Hydrophobic Nanocomposite Mangan Oxide/Polystyrene (Mno ₂ / Ps) | Universitas Negeri Padang |
| 15. | 17.30-17.45 | 171 ICRLP 2018 | Hardeli | Preparation of Dye Sensitized Solar Cell (DSSC) Using Anthocyanin Color Dyes from Jengkol Fruit Skin (Pithecellobium lobatum Benth.) by the Galac Acid Co-pigmentation | Universitas Negeri Padang |

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Padang, August, 9-10, 2018

Day 2: Friday, August 10th, 2018

Moderator : Yulia Herlina P.

Notulen: Veno Julian

Parallel Session

ROOM 2

| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|--------------------|--|--|
| 1. | 13.30-13.45 | 028 ICRLP 2018 | Khairunnisa Nisa | A Low Cost Dip Coating Based on Arduino Microcontroller | Universitas Negeri Padang |
| 2. | 13.45-14.00 | 030 ICRLP 2018 | Allya Nissa Daswar | A Speed Controller for Magnetic Stirrer Based on Microcontroller | Universitas Negeri Padang |
| 3. | 14.00-14.15 | 133 ICRLP 2018 | Zurian Affandi | Design Performance of Array Pyramidal Radar Absorbers | Universitas Negeri Padang |
| 4. | 14.15-14.30 | 213 ICRLP 2018 | Andika Pratama | Effects Of Electric Shock Based CDI (Capassitive Discharge Ignition) As Milk Pasteurization Technology In Industrial Gundaling Farm Brastagi District Tanah Karo | Department of Physics, Faculty of Mathematic and Natural Science, University of Sumatera Utara |
| 5. | 14.30-14.45 | 185 ICRLP 2018 | Nidya Yulfriska | Microstructure of Magnetite - Polyvinylidene Fluoride (Fe ₃ O ₄ /PVDF) Nanocomposite Prepared by Spin Coating Method | Universitas Negeri Padang |
| 6. | 14.45-15.00 | 208 ICRLP 2018 | Budhi Oktavia | Optimization and Determination Of Ion Co(II) Analysis As Complex Form Co-Oxinate Using HPLC | Universitas Negeri Padang |
| 7. | 15.00-15.15 | 023 ICRLP 2018 | Media Sentosa | Design of a Microstrip Metamaterial for C-band Radar Absorber | Universitas Negeri Padang |
| 8. | 15.15-15.30 | 027 ICRLP 2018 | Izzatil Wahyuni | Development of Motor Speed Controller for a Spin Coating | Universitas Negeri Padang |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00-16.15 | 064 ICRLP 2018 | Adree Octova | Identification of Aquifer using Geoelectrical Resistivity Method with | state university of |

The 2018 International Conference on Research and Learning of Physics (ICRLP 2018)

Padang, August, 9-10, 2018

| No | Time | ID | Presenter | Title | Affiliation |
|-----|-------------|----------------|--|--|---|
| | | | | Schlumberger Array in Koto Panjang Area, Nagari Tigo Jangko, Lintau Buo Sub-District, Tanah Datar Regency | padang |
| 10. | 16.15-16.30 | 119 ICRLP 2018 | Akmam | Implementation of Least-Square Inversion Constrain Method of Geoelectrical Resistivity Data Wenner-Schlumberger For Investigation The Characteristics of Landslide | Universitas Negeri Padang |
| 11. | 16.30-16.45 | 184 ICRLP 2018 | Rizki Nurul Fajri | ANALYSIS OF MAGNETIC PROPERTIES AND LAND LOOSE LAKE DIATAS, WEST SUMATERA | Universitas Negeri Padang |
| 12. | 16.45-17.00 | 235 ICRLP 2018 | Randy M Oswara | Estimation of potential serpentine rock using contour method (Case Study: Nagari Lubuk Gadang Selatan, Sangir District, South Solok Regency) | Universitas Negeri Padang |
| 13. | 17.00-17.15 | 237 ICRLP 2018 | Sherly Kasuma Warda Ningsih | SYNTHESIS AND CHARACTERIZATION OF Al DOPED ZnO NANOPARTICLES WITH EGG WHITE/ALBUMINE BY USING SOL-GEL METHOD | Universitas Negeri Padang |
| 14. | 17.15-17.30 | 239 ICRLP 2018 | Umar Kalmar Nizar, Ananda Putra, Rita Sundari and Latisma Dj | Synthesis and characterization of silica-titania with solid-state technique using the solid precursors of SiO ₂ and TiO ₂ as catalyst for biodiesel production | Chemistry Department, Universitas Negeri Padang |
| 15. | 17.30-17.45 | 233 ICRLP 2018 | Maryam | Synthesis of Nano Bacteria Cellulose by Acid Hydrolysis and Ultrasonication Treatment | Department of Agro-Industrial Engineering , Polytechnic of ATI Padang |

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Padang, August, 9-10, 2018

| No | Time | ID | Presenter | Title | Affiliation |
|-----|-------------|----------------|---------------|--|---------------------------|
| 16. | 17.45-18.00 | 070 ICRLP 2018 | Rizaldi Putra | Relationship Between Magnetic Susceptibility and Elemental Composition of Guano from Solek Cave, West Sumatera | Universitas Negeri Padang |

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Padang, August, 9-10, 2018

Day 2: Friday, August 10th, 2018

Moderator : Vera Yunita

Notulen : Ladia

Parallel Session

ROOM 3

| No | Time | ID | Presenter | Title | Affiliation |
|----|-------------|----------------|---------------------|---|---|
| 1. | 13.30-13.45 | 014 ICRLP 2018 | Estuhono | Analysis of Developing a Research Based Learning Model Through Experimental, Scientific, and Technological Unity (ESTU) Approach on Learning Physics in Senior High School | Universitas Negeri padang |
| 2. | 13.45-14.00 | 025 ICRLP 2018 | Amali Putra | How Student Worksheet Oriented of Content Complexity and Cognitive Processes Can Improve Conceptual Understanding and Critical Thinking Skill of Student in Physics Learning in High School | Universitas Negeri Padang |
| 3. | 14.00-14.15 | 042 ICRLP 2018 | Rince Mairiza Putri | Validity of Student Worksheet Assisted by Sensor Display Digital Based on Discovery Learning Model | universitas negeri padang |
| 4. | 14.15-14.30 | 043 ICRLP 2018 | Heru Novrial Sagita | Development of Senior High School Physics Teacher's Book Integrated by Drought Concept with Reasoning and Problem Solving learning Models | Student of Master of Physics Education, Universitas Negeri Padang |
| 5. | 14.30-14.45 | 044 ICRLP 2018 | Hilmi Juhaida | Development Of Physics Module Integrated With Quranic Character Values Using Problem Based Learning | SMAN 4 Solok |
| 6. | 14.45-15.00 | 045 ICRLP 2018 | Maharani | The Effectiveness of Textbook Development Contained The Character of Integrated Learning Model Connected Type with Hearing Sensory and Sonar System on Living Creatures Themes toward Learners' Competence. | universitas negeri padang |
| 7. | 15.00-15.15 | 047 ICRLP 2018 | Festiyed | Indeep Study Problems Organizers Inclusive | Department of |

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Padang, August, 9-10, 2018

| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|------------------------------|---|---|
| | | | | Education Of Medium School in Science Learning in Padang | Physics, Universitas Negeri Padang |
| 8. | 15.15-15.30 | 049 ICRLP 2018 | Azizah Fadhila | Effectiveness of Integrated IPA Text Books Nested with Landslide Theme to Improve Student Preparedness | Universitas Negeri Padang |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00-16.15 | 050 ICRLP 2018 | Chyntia Arman | Practicalities in the Development of Integrated Science Textbook of junior high school drought theme using Problem Based Learning | UNP |
| 10. | 16.15-16.30 | 051 ICRLP 2018 | Putri Melati | Validity of Student Worksheet Based on Problem Based Learning Model Assisted by Practical Tools with Digital Display | Universitas Negeri Padang |
| 11. | 16.30-16.45 | 052 ICRLP 2018 | Fatni Mufit | The Effectiveness of Cognitive Conflict-Based Learning Model to Remediate Misconception | Universitas Negeri Padang |
| 12. | 16.45-17.00 | 053 ICRLP 2018 | Siti Fajar Aldilha Yudha | Validity of Student Worksheet (LKPD) Based on Guided Inquiry Learning Model Assisted by Digital Display Practicum Tool | UNP |
| 13. | 17.00-17.15 | 054 ICRLP 2018 | Dwiokta Muthia Putri Karlina | The Development of Worksheet for Physics Practicum on Electricity by Modified Inquiry Learning Approach | State University of Jakarta |
| 14. | 17.15-17.30 | 212 ICRLP 2018 | Erwinsyah | Applying Problem Based Learning Approach With Science Kit SEQIP To Enhancing Students' Science Learning | Elementary School Teacher Education Program, Faculty of Teacher Training and Education, |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-----------------|-------------------|-----------|--|--|
| | | | | | Universitas Bung Hatta |
| 15. | 17.30- 17.45 | 216 ICRLP 2018 | Erwinsyah | Applying RADEC Model in Science Learning To Promoting Students' Critical Thinking in Elementary School | Elementary School Teacher Education Program, Faculty of Teacher Training and Education, Universitas Bung Hatta |

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Padang, August, 9-10, 2018

Day 2: Friday, August 10th, 2018

Moderator : Liza Rosmita

Notulen : Ilma

Parallel Session

ROOM 4

| No | Time | ID | Presenter | Title | Affiliation |
|----|-------------|----------------|-------------------------|--|------------------------------|
| 1. | 13.30-13.45 | 056 ICRLP 2018 | Ummitatul Fitri | Analysis of Validity Development of Students Worksheet Based on Problem Based Learning Model in the Learning Material of Parabolic Motion Using Practicum With Digital Display | UNP |
| 2. | 13.45-14.00 | 057 ICRLP 2018 | Silvi Elvionita | Evaluating the Validity of Integrated Science Textbook Theme Tsunami Using Webbed Model Based on Polya Problem Solving | Universitas Negeri Padang |
| 3. | 14.00-14.15 | 058 ICRLP 2018 | Afniyati Bahaudin | Validity of Physics Learning Module Based On Multirepresentation To Improve Problem Solving Ability | Universitas Negeri Padang |
| 4. | 14.15-14.30 | 060 ICRLP 2018 | Nurhikmah Sasna Junaidi | The Effect of Implementation of Pictorial Riddle Strategy To Increase The absorption and Understanding of The Concept of Civil Engineering in The Course Engineering Physics | Universitas Pasir Pengaraian |
| 5. | 14.30-14.45 | 061 ICRLP 2018 | Hamid Syahropi | An Analysis Validation of Basic Physics Module on Standard KKNi with Problem Based Learning Model | Universitas Pasir Pengaraian |
| 6. | 14.45-15.00 | 062 ICRLP 2018 | Ismiyati Ismiyati | validity of Physics Learning Module Based On Problem Based Learning To Improve Students Metacognitive Skills | Universitas Negeri Padang |
| 7. | 15.00-15.15 | 063 ICRLP 2018 | Tiara Dela Sari | A PRELIMINARY VALIDATION STUDY OF DEVELOPING A STUDENT'S | Universitas Negeri Padang |

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| | | | | WORKSHEET BASED ON SCIENCE PROCESS SKILLS IN PHYSICS LEARNING | |
|-------------|-------------|----------------|----------------------|--|----------------------------|
| 8. | 15.15-15.30 | 065 ICRLP 2018 | Riko Prayuda | Student Analysis in Junior High School Integrated Science Student Book Development with Webbed Model Local Potential Integrated | SMP Negeri 11 Sungai Penuh |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00-16.15 | 066 ICRLP 2018 | Altri Ramadoni | Development Of Physic's Module SMA/MA Integrated Character Values Based Discovery Learning Models With Approach Science Process Skills | Universitas Negeri Padang |
| 10. | 16.15-16.30 | 071 ICRLP 2018 | Zaitul Hidayat | ANALYSIS OF LEARNING MEDIA IN DEVELOPING SCIENCE TEXTBOOKS WITH THEME ENERGY IN LIFE USING INTEGRATED MODEL FOR INTEGRATED 21ST CENTURY LEARNING | UNP |
| 11. | 16.30-16.45 | 072 ICRLP 2018 | Deni Hernita | Students Analysis in the Student Worksheets Development with Metaphorming Approach to Improve Student's Creative Thinking Skills | Universitas Negeri Padang |
| 12. | 16.45-17.00 | 074 ICRLP 2018 | Vera Yunita Nasution | Preliminary Analysis in the Development Students Worksheet (LKPD) Using Inquiry Based Learning Model with Science Technology Society (STS) Approach for Physics Education High School Class XI/2 | Universitas Negeri Padang |
| 13. | 17.00-17.15 | 075 ICRLP 2018 | Melia Vivi Ningrum | Preliminary Analysis in the Development Students Worksheet (LKPD) Using Inquiry Based Learning Model with Science | Universitas Negeri Padang |

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| | | | | | |
|-----|-------------|----------------|----------------|--|-------------------------|
| | | | | Process Skills Approach for Physics Education High School Class XI/1 | |
| 14. | 17.15-17.30 | 076 ICRLP 2018 | Dina Mariani | The Analysis Needs In The Development Of Integrated Science Book Student Type Conected Integrated Local Culture For SMP Class VII Semester 1 | padang state university |
| 15. | 17.30-17.45 | 055 ICRLP 2018 | Nining Devitri | Validity Of Physics Module Nuanced Process Oriented Guided Inquiry Learning Model (POGIL) to Improve Scientific Literacy At Grade X Senior High School | UNP |

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Day 2: Friday, August 10th, 2018

Moderator : Azfin Gustria

Notulen:Ihsan

Parallel Session

ROOM 5

| No | Time | ID | Presenter | Title | Affiliation |
|----|-------------|----------------|-----------------------|--|---------------------------|
| 1. | 13.30-13.45 | 078 ICRLP 2018 | Henny Fitriani | Textbook Design Of Science Integrated Subject With Integrated Model In Biomagnetic Topic | Universitas Negeri Padang |
| 2. | 13.45-14.00 | 082 ICRLP 2018 | Liza Resnita | Preliminary Analysis in the Development Worksheet Students (LKPD) Using Inquiry Based Learning Model with a Scientific Approach for Physics Education High School Class X Semester 1 | UNP |
| 3. | 14.00-14.15 | 083 ICRLP 2018 | Usmeldi Usmeldi | The Effectiveness of Physics Learning with Science Environment Technology and Social Approach to Improve the Students Competence | Universitas Negeri Padang |
| 4. | 14.15-14.30 | 084 ICRLP 2018 | Ladia Lestari | Preliminary Study in the Development of High School Physics Teaching Materials with Flood Theme to improve the Attitude of Care for Learners | Universitas Negeri Padang |
| 5. | 14.30-14.45 | 085 ICRLP 2018 | Rizki Kurnia | STUDENTS NEEDS ANALYSIS OF DISASTER PREPAREDNESS MOUNTAIN ERUPTS | SMA N 1 Batipuh |
| 6. | 14.45-15.00 | 086 ICRLP 2018 | Dwi Marita Pebriawati | Need Assesment to Development of Integrated Natural Science Textbook by Research-based Learning for Junior High School | UNP |
| 7. | 15.00-15.15 | 087 ICRLP 2018 | Febri Yanto | Development of Problem-Based Student Worksheet with Authentic Assessment to Improve Student's Physics Problem Solving Ability | UNP |

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| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|-----------------------|---|---------------------------|
| 8. | 15.15-15.30 | 088 ICRLP 2018 | Ifzi Ihsan | Analysis of Development of Electronic Module Using Model Inquiry Based Learning with Contextual Approach on Material Physics of SMA Kelas X Semester 1 | UNP |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00-16.15 | 089 ICRLP 2018 | Febrilla Febrilla | Validity of Integrated Thematic Natural Science Teacher's Book with Immersed Type that Contain Character on Subject of Organism Energy by using Science Process Skills Approach | UNP |
| 10. | 16.15-16.30 | 090 ICRLP 2018 | Faradillah | Analysis Student Worksheet Development Using Model Inquiry Based Learning with Contextual Approach for Physics Learning Class X/2 | Universitas Negeri Padang |
| 11. | 16.30-16.45 | 091 ICRLP 2018 | Frima Suci Agustia | Media Analysis in Development of E-Physics High School Module with Land and Forest Fire Theme | Universitas Negeri Padang |
| 12. | 16.45-17.00 | 092 ICRLP 2018 | Nurul Fadieny | THE ANALYSIS OF INSTRUCTIONAL MEDIA IN DEVELOPMENT OF LIGHTNING E-MODULS FOR PHYSICS LEARNING IN SENIOR HIGH SCHOOL STUDENTS GRADE XII | Universitas Negeri Padang |
| 13. | 17.00-17.15 | 093 ICRLP 2018 | Azfin Gustria | A preliminary research on developing physics teaching material to enhance students' awareness toward climate change | Universitas Negeri Padang |
| 14. | 17.30-17.45 | 094 ICRLP 2018 | Rahima Syabrina Sarmi | NEEDS ANALYSIS IN DEVELOPING TEACHER BOOK OF SCIENCE WITH | Universitas Negeri Padang |

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| No | Time | ID | Presenter | Title | Affiliation |
|----|------|----|-----------|--|-------------|
| | | | | THEME OF ENERGY IN LIFE LEARNING USING INTEGRATED MODEL FOR INTEGRAETED 21ST CENTURY LEARNING | |

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Day 2: Friday, August 10th, 2018

Moderator : Elfaretta

Notulen:Voila

Parallel Session

ROOM 6

| No | Time | ID | Presenter | Title | Affiliation |
|----|-----------------|-------------------|--|--|---|
| 1. | 13.30- 13.45 | 097 ICRLP 2018 | Deri Andespa | ANALYSIS OF SENIOR HIGH SCHOOL STUDENT PREPAREDNESS IN DEALING WITH EARTHQUAKE DISASTER IN THE MENTAWAI ISLAND | Master Student of Physics Education, State University of Padang |
| 2. | 13.45- 14.00 | 098 ICRLP 2018 | Feby Aulyana and Ahmad Fauzi | Preliminary Study for the Development of Physics E-Module with Beach Abrasion theme To Improve Disaster Response | UNP |
| 3. | 14.00- 14.15 | 100 ICRLP 2018 | Ilma Hayatil Husna and Ahmad Fauzi | Analysis of the Need for Development of E-Module Physics SMA with Integrate Landslide Material Based on Problem Based Learning Model | UNP |
| 4. | 14.15- 14.30 | 103 ICRLP 2018 | Shofia Ranti, Usmeldi Usmeldi and Ramli Ramli | Validity of Student Work Sheet (LKPD) Integrated Science Based on Research Based Learning Integrated Islamic-Science | UNP |
| 5. | 14.30- 14.45 | 104 ICRLP 2018 | Rahmawati, Ahmad Fauzi and Syafriani | The Effectiveness of Integrated Science Textbook Themed Volcanic Eruption with Creative Problem Solving Model | UNP |
| 6. | 14.45- 15.00 | 106 ICRLP 2018 | Elmitawati Elmitawati, Festiyed Festiyed and Yulkifli Yulkifli | EFFECTIVENESS LEARNING ENRICHMENT OF MATERIALS IMPULSE AND MOMENTUM IN SMA NEGERI 1 SUNGAI GERINGGING | UNP |
| 7. | 15.00- 15.15 | 107 ICRLP 2018 | Afdhal Ridho, Ratna Wulan and Ramli Ramli | The Validation Book of Science Teachers in Sequenced Model with Themes Human Body | UNP |

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| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|--|---|-------------|
| | | | | System Adaptation to Changes in Temperature and Education Approach for Sustainable Development | |
| 8. | 15.15-15.30 | 108 ICRLP 2018 | Annisa Rahma Sari, Ahmad Fauzi and Ramli | Validity of Integrated Science Textbook Meteor Fall Theme Using Immersed Model Based on IDEAL Problem Solving | UNP |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00-16.15 | 109 ICRLP 2018 | Yona Fauzana, Ratnawulan and Usmeldi | Effectiveness of Physics Learning Materials Using Problem-based Learning Model that Integrated Local Wisdom in Efforts to Cope with the 21st Century Challenge | UNP |
| 10. | 16.15-16.30 | 110 ICRLP 2018 | Rosi Angelia, Ahmad Fauzi and Yohandri | VALIDITY AND PRAKTICALITY OF IPA TEXT BOOK INTEGRATED THE THEME OF A HURRICANE WITH THE TYPE OF SHARED INQUIRY TRAINING BASED | UNP |
| 11. | 16.30-16.45 | 111 ICRLP 2018 | Ilham Dani, Ratnawulan . and Syafriani . | Needs Analysis in teacher book development Integrated Natural Science type connected character charged with the theme of the sense of hearing and the sonar system of living things | UNP |
| 12. | 16.45-17.00 | 112 ICRLP 2018 | Dina Trisia, Ahmad Fauzi and Usmeldi | Effectiveness of Development Integrated Science Textbook on Smog Theme with Networked Model Based on Example Broblem Based Learning to Enhance Student's Preparedness Towards Smog | UNP |
| 13. | 17.00-17.15 | 113 ICRLP 2018 | Dewi Sari and Hamdi | Preliminary Analysis of Edupark Fluid Learning | UNP |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-----------------|-------------------|---|--|-------------|
| | | | Rifai | Tool at Mifan Waterpark Padang Panjang | |
| 14. | 17.45- 18.00 | 116 ICRLP 2018 | Nesty Hasmadya Putri, Festiyed Festiyed and Ratnawulan Ratnawulan | Analysis The Characteristic of Problem-solving Skills of Learners in the Development of Performance Appraisal Based on Discovery Learning | UNP |

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Padang, August, 9-10, 2018

Day 2: Friday, August 10th, 2018
Moderator : Melia Vivi Ningrum
Notulen : Eka Okdriyani

Parallel Session
ROOM 7

| No | Time | ID | Presenter | Title | Affiliation |
|----|-------------|----------------|--|--|----------------------------|
| 1. | 13.30-13.45 | 117 ICRLP 2018 | Nurul Ilmarsah Rustam, Ahmad Fauzi and Syafriani Syafriani | Effectiveness Of Integrated Science Teksbook Earthquake Theme Using Connected Model SSCS Problem Solving | UNP |
| 2. | 13.45-14.00 | 118 ICRLP 2018 | Asrizal Asrizal, Ali Amran, Azwar Ananda and Festiyed Festiyed | Effect of Science Instructional Material of Motion in Daily Life Theme in Adaptive Contextual Teaching Model on Academic Achievement of Students | UNP |
| 3. | 14.00-14.15 | 121 ICRLP 2018 | Siska Gusweri | Preliminary Analysis of Edupark Learning Tool Waves on the Mountain Merah Putih and Janjang Saribu In the Sult Air | UNP |
| 4. | 14.15-14.30 | 124 ICRLP 2018 | Veno Julian Anggara | THE PRELIMINARY ANALYSIS OF EDUPARK LEARNING DEVICES OF TEMPERATURE AND HEAT PHYSICS OF AIR PANAS SEMURUP, KERINCI | UNP |
| 5. | 14.30-14.45 | 125 ICRLP 2018 | Yulis Septianas Sari | Role of Students Worksheet in STEM (Science, Technology, Engineering, and Mathematics) Approach to Achieve Competence of Physics Learning | UNP |
| 6. | 14.45-15.00 | 126 ICRLP 2018 | Riza Helfira | ANALYSIS OF INTEGRATED TEXT BOOKS WITH BLOOD FLUID THEME USING INTEGRATED CONNECTED TYPE OF 21st CENTURY LEARNING | SMP N 1Sasak Ranah Pasisie |
| 7. | 15.00-15.15 | 127 ICRLP 2018 | Yulia Yulia | ANALYSIS OF EDUPARK ENERGY | UNP |

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| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-----------------|-------------------|----------------------|--|-----------------------------|
| | | | | EDUCATION MODULE IN GEOPARK HARAU KABUPATEN LIMA PULUH KOTA, PAYAKUMBUH | |
| 8. | 15.15- 15.30 | 128 ICRLP 2018 | Aprili Samra | Needs Analysis of Teachers in Development of Teachers Science Integrated IPA Theme Adaptation System Human Body Toward Temperature Changes Using Integrated Type Integrated 21st Century Learning | SMP Negeri 3 Talamau |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00- 16.15 | 129 ICRLP 2018 | Mitri Selisne | Role of Learning Module in STEM (Science, Technology, Engineering, and Mathematics) Approach to Achieve Competence of Physics Learning | UNP |
| 10. | 16.15- 16.30 | 130 ICRLP 2018 | Frisa Rahmah Sari | Needs Analysis in the Development of Integrated Natural Science Teachers' Book of Junior High School based on Local Wisdom of West Sumatera Role of Learning Module in STEM (Science, Technology, Engineering, and Mathematics) Approach to Achieve Competence of Physics Learning | UNP |
| 11. | 16.30- 16.45 | 132 ICRLP 2018 | Dewi Raya | Analysis Front End to Physics Learning system by using Discovery Learning Model Integrated into 21st Century Learning | MAN 1 Padang Pariaman |
| 12. | 16.45- 17.00 | 134 ICRLP 2018 | Monika Putri | The Validation Of Performance Assessment Based On Guided Inquiry Model To Improve The Science Process Skill | UNP |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-----------------|-------------------|--------------------|---|-----------------------------------|
| 13. | 17.00- 17.15 | 135 ICRLP 2018 | Sri Nicky Yulia | The Validation Of Essay Assesment Paper Based On Creative Problem Solving Type Simplex To Increase Creative Thinking Skill Of The Grade X Students Of Senior High School | UNP |
| 14. | 17.15- 17.30 | 137 ICRLP 2018 | Desnita | Multipurpose Tube from Waste to Instructional Media for Physics Educationg | Jurusan Fisika FMIPA UNP |

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Day 2: Friday, August 10th, 2018
Moderator : Vindy Hifianti
Notulen : Rumi Yuliska

Parallel Session
ROOM 8

| No | Time | ID | Presenter | Title | Affiliation |
|----|-------------|----------------|-------------------|---|-------------|
| 1. | 13.30-13.45 | 138 ICRLP 2018 | Eka Okdriani | Media Analysis in the development of E-Physics Module to improve the Hurricane Disaster Preparedness | UNP |
| 2. | 13.45-14.00 | 139 ICRLP 2018 | Vindy Hifianti | Preliminary analysis in the development of student worksheet using inquiry based learning model with constructivism approach for physics learning | UNP |
| 3. | 14.00-14.15 | 140 ICRLP 2018 | Fourilla Fourilla | Media analysis at preliminary research step in development of physics e-module integrated tsunami disaster | UNP |
| 4. | 14.15-14.30 | 141 ICRLP 2018 | Rumi Yuliska | Needs Analysis of Students in Development of Students Worksheet High School Physics Based Inquiry Based Learning Models To Improve Capabilities Student's Critical Thinking | UNP |
| 5. | 14.30-14.45 | 142 ICRLP 2018 | Refmainawita | Development of Integrated IPA Teachers Junior High School Character Based Threaded With Themes Senses Of The Senses And Optical Instrument | UNP |
| 6. | 14.45-15.00 | 143 ICRLP 2018 | Lusiana | The Development of LKPD Based Tracker Using Model of Project Based Learning | UNP |
| 7. | 15.00-15.15 | 144 ICRLP 2018 | Nadya Mahardika | Need Analysis To Develop Learning Module With Problem Based Learning Model Based on Polya's Problem Solving to Improve | UNP |

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| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|-------------------------|--|---------------------------|
| | | | | Student's Problem-Solving Skills | |
| 8. | 15.15-15.30 | 145 ICRLP 2018 | Pebrisa Amrina | Validity In Teacher Book Development Natural Science Junior High School Charged Character Based On Integrated Learning Type Connected With The Theme Of Blood Fluid | UNP |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00-16.15 | 146 ICRLP 2018 | Triandya Putri | ANALYSIS OF STUDENTS NEEDS OF AN INTEGRATED BOOK OF SCIENCE STUDENT WITH THE THEME OF BLOOD FLUID USING AN INTEGRATED TYPE OF LEARNING CONNECTED TO THE 21ST CENTURY | UNP |
| 10. | 16.15-16.30 | 149 ICRLP 2018 | Tarinta Annisa Kendedes | THE DEVELOPMENT OF SHARED MODEL TEACHER BOOK THEMED COHESION AND ADHESION ON THE ORGANISM | UNP |
| 11. | 16.30-16.45 | 150 ICRLP 2018 | Ayu Melati | Needs Analysis of Integrated Science Teacher Book with Theme Senses Of Sight and Optical Devices Using Connected Model for Integrated 21st Century Learning | UNP |
| 12. | 16.45-17.00 | 152 ICRLP 2018 | Wityanita | Validation of Physics Student's Worksheet Cognitive Conflict Strategy Based to Minimalize Student's Misconception | SMK SMAK PADANG |
| 13. | 17.00-17.15 | 154 ICRLP 2018 | Firda Weri | Analysis of Students in the Development of Integrated Science Student Book With The Theme Sense of Sight and Optical Devices | Universitas Negeri Padang |

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|-----|-------------|----------------|---------------|--|-------------------|
| | | | | Using Connected Model For Integrated 21st Century Learning | |
| 14. | 17.15-17.15 | 155 ICRLP 2018 | Masril Masril | Implementation Virtual Laboratory through Discovery Learning to Improve Student's Physics Competence in Senior High School | Physics education |

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Day 2: Friday, August 10th, 2018

Moderator : Dina Maryani

Notulen : Miftahul Khairah

Parallel Session

ROOM 9

| No | Time | ID | Presenter | Title | Affiliation |
|----|-------------|----------------|--|---|----------------------------|
| 1. | 13.30-13.45 | 156 ICRLP 2018 | Susri Lisnidarni and Yohandri Yohandri | Development of LKPD Project Based Learning Assisted by Tracker Application on Momentum and Impulse Physics Topic in Senior High School | Universitas Negeri Padang |
| 2. | 13.45-14.00 | 157 ICRLP 2018 | Rizki Fadilah | Development of Track-Based LKPD Using Project Based Learning Model (PJBL) On Static Fluid Material For Class XI at SMAN 1 Panyabungan | University Of Padang |
| 3. | 14.00-14.15 | 158 ICRLP 2018 | Dwi Athifah | Needs Analysis of Students in the Development Students Worksheet (LKPD) High School Physics using Inquiry Training Models To Improve Students Creative Thinking skill | Universitas Negeri Padang |
| 4. | 14.15-14.30 | 159 ICRLP 2018 | Toni Supriadi | Identification Characteristics of Students in the Development of Integrated Natural Sciences Student Books Integrated 21st Century Learning: A Case Study in SMP N 3 Talamau West Pasaman | Universitas Negeri Padang |
| 5. | 14.30-14.45 | 162 ICRLP 2018 | Atika Ulya Akmal | Development of Integrated High School Physics Textbook Disaster Meteor Fall Based ARCS Approach And Learning Model Spiral Problem Solving | state university of padang |
| 6. | 14.45-15.00 | 164 ICRLP 2018 | Srisa Oktaweri | Curriculum Analysis in Developing Interactive Multimedia Teaching Materials Scientific | Universitas Negeri Padang |

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| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|----------------------|--|----------------------------|
| | | | | Model Assisted Games for Physics Learning | |
| 7. | 15.00-15.15 | 166 ICRLP 2018 | Synthatrisma Utami | Learning Device Analysis In Developing Interactive Multimedia Teaching Materials Scientific Model Assisted Games for Physics Learning | Universitas Negeri Padang |
| 8. | 15.15-15.30 | 167 ICRLP 2018 | Mutia Yussavel Navis | THE DEVELOPMENT OF MEDIA LEARNING AND LEARNING MATERIAL USING ICT BASED ON CONTEXTUAL TEACHING AND LEARNING FOR SENIOR HIGH SCHOOL CLASS X OF MATERIAL MOMENTUM AND IMPULSES | State University Of Padang |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00-16.15 | 168 ICRLP 2018 | Andini Ardiva | THE DEVELOPMENT OF MEDIA LEARNING AND LEARNING MATERIAL USING ICT BASED ON CONTEXTUAL TEACHING AND LEARNING FOR SENIOR HIGH SCHOOL CLASS X OF MATERIAL WORK AND ENERGY | State University Of Padang |
| 10. | 16.15-16.30 | 169 ICRLP 2018 | Iis Purnama Sari | THE DEVELOPMENT OF MEDIA LEARNING AND LEARNING MATERIAL USING ICT BASED ON CONTEXTUAL TEACHING AND LEARNING FOR SENIOR HIGH SCHOOL CLASS X OF | State University Of Padang |

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| No | Time | ID | Presenter | Title | Affiliation |
|-----|-----------------|-------------------|----------------------------------|--|-------------------------------|
| | | | | MATERIAL NEWTON'S LAW OF GRAVITY | |
| 11. | 16.30- 16.45 | 170 ICRLP 2018 | Elfa Afradisca and Desnita | THE DEVELOPMENT OF MEDIA LEARNING AND TEACHING MATERIAL USING ICT BASED ON CONTEXTUAL TEACHING AND LEARNING FOR SENIOR HIGH SCHOOL CLASS X OF MATERIAL CIRCULAR MOTION | State University Of Padang |
| 12. | 16.45- 17.00 | 173 ICRLP 2018 | Heffi Alberida | The Development of Problem Solving Model Syntax For Science Learning | UNP |
| 13. | 17.00- 17.15 | 177 ICRLP 2018 | Wenda Emafri | ANALYSIS INTRODUCTION WHAT IS REQUIRED IN PHYSICS TEACHING MATERIALS TO DEVELOP EDUPARK DYNAMIC FLUID RIVER MASANG CANYON SIANOK BUKITTINGGI | SMA N 2 BUKITTINGGI |
| 14. | 17.15- 17.30 | 182 ICRLP 2018 | Siti Riva Darwata | Validity of Student Worksheet (LKPD) Oriented on POE Model Assisted by Digital Practicum Tool | UNP |

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Day 2: Friday, August 10th, 2018

Moderator: Yuni Azmanita

Notulen : Esti Aprilia Usman

Parallel Session

ROOM 10

| No | Time | ID | Presenter | Title | Affiliation |
|----|-----------------|-------------------|-----------------------------|---|-------------|
| 1. | 13.30- 13.45 | 188 ICRLP 2018 | Fitratul Fajrin | Development of Learning Devices Based on Guided Inquiry to Overcome Student Misconception on Measurement Material | UNP |
| 2. | 13.45- 14.00 | 191 ICRLP 2018 | Nopem Trio | Validity Of Student Worksheet Oriented Somatic, Auditorial, Visual and Intellectual (SAVI) Approach of Temperature, Heat and Kinetic Theories of Gas by Digital Display Practicum Tool | UNP |
| 3. | 14.00- 14.15 | 193 ICRLP 2018 | Desmi Erida Harahap | Development of Performance Assessment Instrument on Physical Learning to Improve the Critical Thinking Skills of Students on Temperature and Heat Material in X-Class Science High School | UNP |
| 4. | 14.15- 14.30 | 197 ICRLP 2018 | Hayyu Yumna | Validity of Flood Themed Science Textbook for Junior High School with Sequenced Model Using Problem Based Learning | UNP |
| 5. | 14.30- 14.45 | 206 ICRLP 2018 | Fanny Rahmatina Rahim | PRELIMINARY ANALYSIS OF STUDENTS' CRITICAL AND CREATIVE THINKING SKILL IN INTEGRATED SCIENCE GRADE VII | UNP |
| 6. | 14.45- 15.00 | 224 ICRLP 2018 | Hufri | Validation Analysis of Physics Teaching Materials Based on Contextual Through Inquiry to Increase Students Science Literacy | UNP |
| 7. | 15.00- 15.15 | 227 ICRLP 2018 | Zulhendri Kamus | Content Development of Physics Learning Material With Emotional | UNP |

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| No | Time | ID | Presenter | Title | Affiliation |
|-------------|-------------|----------------|--------------------|--|-------------|
| | | | | Intelligence Values as an Effort to Achieve Comprehensive Competencies of Student | |
| 8. | 15.15-15.30 | 231 ICRLP 2018 | Medya Minalisa | DEVELOPMENT OF PERFORMANCE ASSESSMENT USING INQUIRY BASED LEARNING IN INCREASING SCIENCE PROCESS SKILLS CLASS XI MIPA AT SMAN 1 BAYANG | UNP |
| 15.30-16.00 | | | Coffe Break | | |
| 9. | 16.00-16.15 | 234 ICRLP 2018 | Metrisno Putra | Development of lesson tools IPA SMP base of Group Investigation model with science skill process approaches in Heat subject and its movement | UNP |
| 10. | 16.15-16.30 | 236 ICRLP 2018 | Zaira Ulfa | Preliminary Analysis Development of Integrated Physics Module Character Values Based on Problem Based Instruction (PBI) To Improve Problem Solving Ability | UNP |
| 11. | 16.30-16.45 | 122 ICRLP 2018 | Ellizar | Developing a Discovery Learning Module on Chemical Equilibrium to Improve Critical Thinking Skills of Senior High School Students | UNP |
| 12. | 16.45-17.00 | 009 ICRLP 2018 | Fatkhur Rohman | Integration of Technology In Project Based Learning with Tracker on Practicum Activities | UNP |
| 13. | 17.00-17.15 | 183 ICRLP 2018 | Donny Jaka Pratama | Preliminary Analysis of Learners in Developing Student Book Oriented Research Based Learning Models Using 3D Pageflip Professionals on Science Lessons SMP/MTs | UNP |
| 14. | 17.15- | 187 ICRLP | Afrinaldi | INTRODUCTORY | SMAN 2 |

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| No | Time | ID | Presenter | Title | Affiliation |
|----|-------|------|-----------|---|-----------------|
| | 17.30 | 2018 | Afrinaldi | ANALYSIS ON EDUPARK FLUID LEARNING MEDIA IN SCHOOL GARDEN OF SMAN 2 LUBUK BASUNG | Lubuk Basung |