

Program

*The two onsite meetings are in the lecture hall 110N and 111N
for the participants who are present in Cracow.
All presentations will be shown online.*

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| Friday, November 19, 2021 (all hours are given in CET (UTC+2)) | | |
| 16:00-18:00 | Registration, Meeting of the Organising Committee Venue for the onsite meetings: Pedagogical University of Cracow (PUC), Podchorazych 2, 30 084 Krakow. Lecture hall 110N, 111N , in the new building of PUC, the main entrance from Chmiela street (see map_Krakow-Rynek-PUC in the website) | |
| Saturday, November 20, 2021 | | |
| | Opening Session Lecture hall 110N. Online meeting: Enter here <i>Chair persons: Hoa Kim Ngan Nhu-Tarnawska, Mai Suan Li, Andrzej Kornaś</i> | |
| 10:00-10:15 | Welcome address Honorary guests of WVSP2021: Robert Stawarz , Vice-Rector of the Pedagogical University of Cracow Doan Dinh Phuong , Director of the Institute of Materials Science, Vietnam Academy of Science and Technology, Hanoi, Vietnam Dawid Nałęcz , Vice-Director of Institute of Physics, Pedagogical University of Cracow Tran The Hung , Director of the Institute of Agriculture and Environment, Quang Binh University, Vietnam | |
| | Session 1: <i>Science and Culture</i> Lecture hall 110N. Online meeting: Enter here Chairperson: Hoa Kim Ngan Nhu-Tarnawska | |
| 10:15-11:00 | Ladislav Havela <i>Hydrogen storage in metal hydrides – fundamental principles meet practical life</i> PL-1 | |
| 11:00-11:30 | Nguyen Thi Thu Thuy <i>The values in Vietnamese Mother Worship</i> I-1 | |
| 11:30-11:50 | <i>Coffee/tea break</i> | |
| | Session 2A <i>Materials Science</i> Lecture hall 110N. Online meeting: Enter here Chair persons: Tran Vinh Hung | Session 2B <i>Natural Science-1</i> Lecture hall 111N. Online meeting: Enter here Chair persons: Ladia Havela |

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| 11:50-12:20 | Nguyen Thi Ngoc Anh <i>If noise characterization of MgO-based magnetoresistive sensors enable a noise-based technique for detecting of weak magnetic signals</i> I-2 | Ewa Durska <i>The power of plants – application of fossil spores and pollen grains in geology</i> I-4 |
| 12:20-12:30 | Thi Hue Nguyen <i>Effective generation of optical vortex beams using flat-surface nanostructured gradient index component and its developments</i> O-01 | Thiep Vo Van <i>Assessment of the risk of Lead exposure when consuming <i>Siganus fuscescens</i> (Houttuyn, 1782) in the coastal of Quang Binh, Vietnam</i> O-07 |
| 12:30-12:40 | Thi Hong Quan Vu <i>Investigation of spectroscopic properties of Ba₂MgMoO₆ double perovskite doped with Eu³⁺</i> O-02 | Thi Hoang Ha Truong <i>Effects of mulch C/N ratio and decomposition stage on plant N uptake and N availability in soil with or without wheat straw incorporation</i> O-08 |
| 12:40-12:50 | Hong Hanh Cong <i>Green synthesis silver nanoparticles using <i>Syzygium nervosum</i> aqueous leaf extract</i> O-03 | Thanh Le Hai <i>Sustainable promotion of cultural landscape values in the Son river basin, Quang Binh, Vietnam</i> O-09 |
| 12:50-13:00 | Thi Thu Ha Nguyen <i>ab-initio study of the magnetic properties of the double perovskites A₂MM'O₆ compounds, where A = alkaline earth or rare-earth metal, and M, M' = transition metals</i> O-04 | Yen Tran Thi <i>Research on the reproductive characteristics of the blood cockle (<i>Anadara granosa</i>) in the coastal areas of Quang Binh province</i> O-10 |
| 13:00-14:00 | <i>Lunch break</i> | |
| | Session 3A <i>Natural Science-2</i> Lecture hall 110N <u>Online meeting: Enter here</u> Chair persons: Mai Suan Li | Session 3B <i>Biology</i> Lecture hall 111N <u>Online meeting: Enter here</u> Chair persons: Andrzej Kornaś |
| 14:00-14:30 | Hung Son Nguyen <i>Ethical AI</i> - Principles and difficulties I-3 | Agnieszka Czyżowska <i>The role of lipid peroxidation in skeletal muscle atrophy and weakness in aging</i> I-5 |
| 14:30-14:40 | Thang Do <i>New study on the age of Tertiary sediments in the Yen Bai Basin (Northern Vietnam) based on palynological analysis</i> O-05 | Dyba Barbara <i>Specific methods for studying the interaction between cell membrane & environment under stressful conditions</i> O-11 |
| 14:40-14:50 | N.-T.H. Kim-Ngan <i>MeV ion-beam for analysis and modifications of materials: the</i> | Skórka Magdalena <i>Evaluation of manganese as a stress factor in plant cells</i> |

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| | <i>crystallinity and stability of the Fe₃O₄-based thin films</i> O-06 | O-12 |
| 15:00-15:30 | e-Posters-1 <i>online 3 min.-3 slides presentation</i> P-01, P-02, P-03, P-04, P-05, P-06, P-07, P-08. | e-Posters-2 <i>online 3 min.-3 slides presentation</i> P-09, P-10, P-11, P-12, P-13, P-14, P-15, P-16. |
| Sunday, November 21, 2021 | | |
| | Session 4A <i>Biophysics</i> Lecture hall 110N. <u>Online meeting: Enter here</u> Chair persons: Mai Suan Li | Session 4B <i>Physics</i> Lecture hall 111N. <u>Online meeting: Enter here</u> Chair persons: Tran Quoc Tien |
| 10:00-10:50 | Dinh Xuan Anh Tuan <i>SARS-CoV-2 and COVID-19: a deadly journey from genes mutations to cytokine storms</i> PL-2 | Artur Blachowski <i>Mössbauer studies of iron-based superconductors</i> I-8 (10:00-10:30) |
| | | Van Long Le <i>Temperature dependence of anisotropic dielectric tensor of single-crystal α-SnS</i> O-15 (10:30-10:40) |
| | | Sylvia Sowa <i>Superconductivity and structure of selected 5f and (3-5)d metals and their hydrides</i> O-16 (10:40-10:50) |
| 10:50-11:20 | Trinh Xuan Hoang I-6 | Jacek Gatlik <i>The mass problem in effective description of soliton motion</i> O-17 (10:50-11:00) |
| | | Mattia Longobucco <i>Study of all-optical switching of 1560 nm femtosecond pulses using soft glass dual-core fibers</i> O-18 (11:00-11:10) |
| | | 11:10-11:30 e-Posters-3 <i>online 3 min.-3 slides presentation</i> |
| 11:20-11:30 | Hung Nguyen <i>Electrostatic Interactions Explain the Higher Binding Affinity of the CR3022 Antibody for SARS-CoV-2 than the 4A8 Antibody</i> O-13 | P-17, P-18, P-19, P-20. |
| 11:30-11:50 | <i>Coffee/tea break</i> | |

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| | Session 5A <i>Science and life-1</i> Lecture hall 110N. <u>Online meeting: Enter here</u> Chair persons: Dawid Nałęcz | Session 5B <i>Science and life-2</i> Lecture hall 111N. <u>Online meeting: Enter here</u> Chair persons: Vo Van Thiep |
| 11:50-12:20 | Phan Anh Tu <i>Sustainable development for the Khmer community in Mekong delta (Vietnam) in the globalization context</i> I-7 | Zbigniew Tarnawski <i>Diet guideline, is it an evidence - based science or food industry advertisement?</i> I-9 |
| 12:20-12:30 | Nguyen Phuong Nhung <i>A protein network for the prioritization of telomere interacting oncogenes associated with non-small cell lung cancer</i> O-14 | Anna Kocoń <i>A review of ticks in Cracow, Poland's most popular tourist city</i> O-19 |
| 12:30-12:40 | e-Posters-4 <i>online 3 min.-3 slides presentation</i> P-21, P-22. | Sylvia Koczanowicz <i>The risk of tick attacks Ixodes ricinus (Linnaeus, 1758) on selected tourist trails and educational-environmental paths in the Poprad landscape park</i> O-20 |
| | Special session: The first annual prize “Creative Youth” <i>Chair person: Tran Anh Tuan, Le Xuan Lam</i> | |
| 12:40-12:50 | Mai Suan Li <i>Awarding the prize of Vietnam Association of Science and Technology in Poland for the Young Scientists having the best achievement during the year 2016-2021.</i> | |
| 12:50-13:05 | Presentation of the first laureate: <i>Summary of the achievements</i> SO-1 | |
| 13:05-13:20 | Presentation of the second laureate: <i>Summary of the achievements</i> SO-2 | |
| 13:20-13:30 | Summary and Closing <i>Chair persons: Mai Suan Li, Hoa Kim Ngan Nhu-Tarnawska, Andrzej Kornaś</i> | |
| | Summary (Mai Suan Li) | |
| | Statistics (Kim Nhu-Tarnawska) | |
| | Closing (Andrzej Kornaś) | |
| 13:30-14:30 | On-line round-table discussion | |

PL - Plenary lecture
O - Oral talk
SO - Special oral talk

I - Invited talk
P – Poster

| e-Posters <i>online 3 min.-3 slides presentation</i> | | |
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| poster | Presenting author | Title |
| P-01 | Dau Quan | <i>The fixed point theorem in a banach space Endowed with a digraph</i> |
| P-02 | Mai Thi Ly | <i>First-principle study of electronic properties of superconducting β-IrSn₄</i> |
| P-03 | Nguyen Ngoc Anh | <i>Synthesis and characterization of thermal conductivity of nanofluids based on Ag decoreated CNTs-graphene hybrid materials</i> |
| P-04 | Nguyen Thi Mai | <i>Size-dependent geometric, electronic and H₂ adsorption properties of Ag_nCr (n=1-12) clusters</i> |
| P-05 | Vu Xuan Manh | <i>Real-time, continuous-flow determination of the magnetic nanoparticles concentration by modified-GMR sensor</i> |
| P-06 | Ly Hoang Thien | <i>Sickest-first policy & Predictive Models for Liver Transplant Candidates in the US</i> |
| P-07 | Nguyen Thi Bich Lien | <i>Design a website for looking up diplomas and certificates on the website gbu.edu.vn</i> |
| P-08 | Phan Cong Ngoc | <i>Change in electrical conductivity of river water due to the impact of small-scale hydroelectric system. Case Study: Nida River, Poland</i> |
| P-09 | Le Dang Huy | <i>Combined Ligand-Based and Structure-Based Virtual Screening Approach and Molecular Dynamics Simulation of SARS-CoV-2 Protease (Mpro and PLpro) for Identifying Antiviral Inhibitors against SARS-CoV-2</i> |
| P-10 | Le Quang Bao | <i>A simple rule-based approach for designing novel dual-target AChE and BACE1 inhibitors as anti-Alzheimer agents</i> |
| P-11 | Le Khanh Vu | <i>Indication of soil water table of forest biogeocenosis of the Leningrad region using scales L. G. Ramensky</i> |
| P-12 | Nguyen Thi Tuan Diep | <i>Production of sodium hypochlorite by direct electrolysis of seawater with OIPTA + TA electrode</i> |
| P-13 | Phan Nu Y Anh | <i>Factors affecting ecotourism development of Hac Hai lagoon, Quang Binh province</i> |
| P-14 | Tran Tuong Ly | <i>Highly enhanced adsorption for the removal of Ag (I) from aqueous solution by Mercaptoethylamine functionalized vermiculites</i> |
| P-15 | Hoang Thi Tuyet Nhung | <i>Evaluation of the immunostimulating effect of Milnavir capsules on experimental animals</i> |
| P-16 | Nguyen Hoang Ngan | <i>Evaluation of regulating effect on exogenous dyslipidemia of capsules prepared from fermented Allium sativum, Hibiscus sabdariffa, Gynostemma pentaphyllum and Alisma plantago aquatica on white rats</i> |
| P-17 | Bui Thi Hoa | <i>Transition Metal (Co, Ni, Fe)-based materials -superior electrocatalyst for water splitting</i> |
| P-18 | Phan Ke Son | <i>Co-loading of nanosilver and nanoemulsion antibiotics plant-based Allium sativum extract in alginate/carboxyl methylcellulose carrier for antibacterial activity</i> |

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| P-19 | Le Thi Quynh Xuan | <i>Degradation of methyl blue by an approach using plasma jet processing</i> |
| P-20 | Stawarz Michal | <i>Locally anisotropic field in polydispersed composites after FSP modification</i> |
| P-21 | Hoang Phuong Thao | <i>Administrative reform below the Minh Menh dynasty (1820 - 1840)</i> |
| P-22 | Mostowska Joanna | <i>Indo-Himalayan Protected Areas: Mountain Tourism</i> |

The program of WVSP2021 and PolVietSym2021 is based on plenary lectures (45 min.), invited talks (30 min.), contributed talks (10 min.) and the poster presentations (each as (online) 3 min.-3 slides poster presentation (e-poster)).

Chương trình của WVSP2021 và PolVietSym2021 bao gồm các báo cáo tổng quan (thời lượng 45 phút), các báo cáo của khách mời (30 phút), các báo cáo đóng góp (10 phút) cùng với các báo cáo dạng poster (mỗi poster được trình bày theo dạng 3-trang-trong-3-phút (e-poster)).

Program WVSP2021 i PolVietSym2021 opierają się na wykładach plenarnych (45 min.), wystąpieniach zaproszonych (30 min.), prezentacji ustnych (10 min.) oraz prezentacji plakatowej (każda jako 3 min-3 slajdy-prezentacja (e-poster)).

Krakow time to several places' time conversion

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| Oklahoma, USA -7 | Kraków (CET) | Petersburg, Russia +1 | Novocherkassk, Russia +1 | VietNam (ICT) +6 | Adelaide, Australia +8:30 |
| 3:00 | 10:00 | 11:00 | 11:00 | 16:00 | 18:30 |
| 7:00 | 14:00 | 15:00 | 15:00 | 20:00 | 22:30 |