

Country posters

Each country is invited to give a 90 second presentation summarising their poster in the following sessions in the given order. These presentations will take place in the Great Hall

Monday 17 July 15:00-15:30

Chair: Averil Macdonald

CP1.1 Areas of action – Equal opportunities for women and men in physics in Germany

A Bossmann, German Physical Society, Germany

CP1.2 The Tunisian Experience for Women in Physics

S Jaziri, Faculty of Sciences of Bizerte, Tunisia

CP1.3 Iranian women in faculty positions in Physics

A Iraji zad, Sharif university of Technology, Iran

CP1.4 Gender Equality in Research: Lithuanian is starting modernization of research organizations performing Physics Research

D Satkovskiene, Vilnius University Institute of Theoretical Physics and Astronomy, Lithuania

CP1.5 Trend and status of Women in Physics in Uganda

F Mutonyi D'ujanga, Makerere University, Uganda

CP1.6 Strategies and results for promoting participation of women in physics in mexico: demographics and short timescale aims

L Romero-Salaza, Univeristy of the State of Mexico, Mexico

CP1.7 How successful are women in physics in Ireland?

Y Kavanagh, Institute of Technology Carlow, Ireland

CP1.8 Building Bridges for Women Participation in Physics, Zambia

M Kawesha, Cancer Diseases Hospital, Zambia

CP1.9 Initiatives to mentoring women pursuing physics as education and career in Bangladesh

S Choudhury, University of Dhaka, Bangladesh

CP1.10 Update on women in physics in Finland

J Ott, Helsinki Institute of Physics, Finland

CP1.11 Woman in Physics in Japan

M Nojiri, KEK, Japan

Monday 17 July 16:00-16:30

Chair: Averil Macdonald

CP2.1 Women in Physics in Zimbabwe

H Danga, Midlands State University, Zimbabwe

CP2.2 The Current situation of women physicist in Albania

A DEDA, Professional College of Tirana, Albania



CP3.7

International Conference on Women in Physics

CP2.3	Following the Pizan's paradigm to open a free path without gender barrier for Physicists in Argentina M Frechero, Universidad Nacional del Sur, Argentina
CP2.4	Women in physics in Armenia. Why so few? M Zazyan, YERPHI, Armenia
CP2.5	Charter for Gender Fairness at Conferences in France V Pierron-Bohnes, French Physical Society-Femmes&Sciences, France
CP2.6	Women in Physics in Nigeria: Advances and Challenges (2014–2017) I Fuwape, Federal University of Technology, Akure, Nigeria
CP2.7	Meeting of Women Physicists in Peru-February 11, 2016 M Cerón Loayza, San Marcos University, Peru
CP2.8	Features of academic career of Women-Physicists in Russia E Ermolaeva, Moscow Lomonosov State Universit, Russia
CP2.9	Update on the Status of Women in Physics Canada A Predoi-Cross, Canadian Association of Physicists, Canada
CP2.10	Progress to date: Women in Physics in South Africa M Diale, University of Pretoria, South Africa
	y 18 July 14:30–15:30 /al Gibson
CP3.1	Current Status of Women in Physics in Taiwan Y Chen, National Cheng Kung University, Taiwan
CP3.2	Women in Physics in Uruguay: Current situation and perspectives C Stari, UdelaR, Uruguay
CP3.3	Gender Status in the Indian Physics Profession: A report R Lekshmikuttuyamma, Indian Institute of Space Science & Technology, India
CP3.4	The status of Egyptian women physicists M Mohsen, Ain Shams University, Egypt
CP3.5	Promotion of Physics education among females N Shrestha, Tribhuvan university, Nepal
CP3.6	Gender Imbalance in a Number of PhD Physicist and the Key Decision-Making Positions in the Republic of Serbia M Pavkov-Hrvojević, University of Novi Sad, Serbia

Women in Physics in the United States: Reaching toward equity and inclusion

G Cochran, Rutgers University, United States



CP3.8 Towards gender parity in the sciences and physics in Morocco

M Bettachy, University Hassan, Morocco

CP3.9 Gender balance in natural science: a case study of Belarus

l Tashlykova-Bushkevich, Belarusian State University of Informatics and Radioelectronics, Belarus

CP3.10 Women in Physics in Ecuador: Ways to Encourage Other Women to Go Into Physics

S Guitarra, Universidad San Francisco de Quito, Ecuador

CP3.11 The Dutch FOm/f approach towards gender balance in physics

A de Hoogh, Dutch National Research Organisation, Netherlands

CP3.12 Outreach Activities: Physics Department University of Dar es Salaam, Tanzania

M Samiji, University of Dar es Salaam, Tanzania

CP3.13 Pakistan Country Report

A Qamar, University of Peshawar, Pakistan

CP3.14 On the Road to Equality

B Gabrys, Institute of Physics, United Kingdom

CP3.15 Shortage of Women teaching Physics in Cameroonian Universities

M Boyomo, University of Yaounde I, Cameroon

CP3.16 Activities of The Women Committee of Korean Physical Society

O Chung, Sunchon National University, Korea, Republic of (South Korea)

CP3.17 Women in Physics in Australia 2017

P Maasoumi, Women in Physics in Australian institute of Physics, Australia

CP3.18 Women in Physics in Ghana: Our Story

A Andam, School of Nuclear and Allied Sciences, Ghana

CP3.19 The Arab Spring and its Impact on Women Physicists in Yemen "Struggling Case"

S Ali, Sana'a University, Yemen

CP3.20 Women and Physics in Italy: Numbers, Projects, Actions

S Croci, University of Parma, Italy

CP3.21 Women in Physics of Chinese Physical Society

K Jin, Institute of Physics, China



Science posters

Each presenter is invited to give a 2 minute presentation summarising their poster in the following parallel sessions in the order given. These parallel sessions take place 12:00–12:45 Wednesday 19 July.

Session 1

Asrophysics and Cosmology, Nuclear, Particle and Medical Physics

Physics West 117

P1.1 Characterization of two Meteorites Chondrites by Physical techniques

M Cerón Loayza, San Marcos University, Peru

P1.2 The MicroBooNE Experiment

J Esquivel, MicroBooNE Collaboration, United States

P1.3 Cosmological Evolution of Supermassive Black Holes

S Chatterjee, Presidency University, India

P1.4 Effect of electron streaming on the kinetic instability of drift magnetosonic wave in solar wind

H Naim, Govt. College University, Pakistan

P1.5 Infrared observations of Jupiter's northern lights

R Johnson, University of Leicester, United Kingdom

P1.6 Biophysical Regulation of Thermodynamic Effects on Type 2 Diabetes

T Presley, Winston Salem State University, United States

P1.7 Investigations and Recovery of the meteorite felt on Nubian Desert in Sudan

T Shatir, University of Jeddah, Saudi Arabia

P1.8 The CUORE Experiment

L Gladstone, MIT, United States

P1.9 Rapid Nuclear Forensics Analysis Via Machine Learning Enabled LIBS

B Bhatt, University of Nairobi, Kenya

P1.10 The Environments of Accreting Supermassive Black Holes in the Nearby Universe

P Shastri, Indian Institute of Astrophysics, India

P1.11 Optical properties of human jawbone, spongy bone and human bone substitute CERABONE® in spectral range from 0.2 to 2.5 THz

A Nikoghosyan, Yerevan State University, Armenia

P1.12 Observation of an Excited Bc Meson State with the ATLAS Detector

S Seidel, University of New Mexico, United States

P1.13 Charged Particle Stopping Power Experiments on Orion

J Coltman, AWE, United Kingdom

P1.14 Resurrecting Quartic and Quadratic inflaton potentials in two-field inflationary model

S Das, Department of Physics, India



P1.15 The Muon g-2 experiment at Fermilab

R Bjorkquist, Cornell University, United States

P1.16 Determination of CP Violation in the lepton sector

S Goswami, Physical Research Laboratory, India

Session 2

Condensed Matter Physics

Aston Webb C-block LT

P2.1 Bio-Hydrodynamic Approach to Model Fish Lammelae as Microfluidic Channels

L Romero-Salazar, University of the State of Mexico , Mexico

P2.1 Computational modelling of defects and lattice vibrations in photovoltaic materials

L Whalley, Imperial College London, United Kingdom

P2.1 Finite-size effects on Griffith phase in lanthanum strontium manganites

J Lin, National Taiwan University, Taiwan

P2.4 Electrical Characterisation of electron beam exposure induced defects in epitaxially grown n-type silicon

H Danga, Midlands State University, Zimbabwe

P2.5 First Shell Low-Temperature Study Of Zincblende-Type ZnS By EXAFS Technique Using Cumulant Method

B Thiodjio Sendja, University of Yaounde, Cameroon

P2.6 Thermal Admittance and Deep Level Transient Spectroscopy of methylammonium lead-bromide (CH₃NH₃PbBr₃)

perovskite solar cellsM Diale, University of Pretoria, South Africa

P2.7 Microstructure and chemical composition effects on hydrogen behavior in rapidly solidified Al-Cr alloys

l Tashlykova-Bushkevich, Belarusian State University of Informatics and Radioelectronics, Belarus

P2.8 Modeling Set and Reset Operation in Hf02-based Resistive Random Access Memories

S Guitarra, University San Francisco Quito, Ecuador

P2.9 Structured beams generated from a spatial light modulator and laser cavities

T Lu, National Taiwan Normal University, Taiwan

P2.10 Complex Refractive Index of Aerosol Samples

S Mico, University of Vlora, Albania

P2.12 Tunable and switchable erbium-doped fiber laser using multimode-fiber based filter

A Khattak, Wilfrid Laurier University, Canada

P2.13 Nonlinear electrostatic waves in dusty plasmas with anisotropic ions pressure and super-thermal electrons

A Qamar, Kohat University of Science and Technology, Pakistan

P2.14 Impacts of the base doping rate and the emitter doping rate on the internal quantum efficiency

R Konate, University Ouaga I Prof Joseph KI Zerbo, Burkina Faso



P2.15 Measuring the deviation from the superposition principle in interference experiments

U Sinha, Raman Research Institute, India

P2.16 Defect introduction by inductively coupled plasma etching in silicon

H Danga, Midlands State University, Zimbabwe

P2.17 Quantum Field Theory in Accelerated Frames

A Dasgupta, University of Lethbridge, Canada

P2.18 Much ado about knotting

D Sugic, University of Bristol, United Kingdom

Session 3

Environmental Physics

Great Hall

P3.1 The impact of the extensive use of phosphate fertilizers on radioactivity levels in farm soil in Tanzania

N Mohammed, University of Dar es Salaam, Tanzania

P3.2 Particulate Matter Concentrations: Urban Versus Suburban Areas of Vlora

S Mico, University of Vlora, Albania

P3.3 Validity assessment of the global tidal models in the Persian Gulf and Oman sea using

from the coastal tide gauges and the IOS Software $\,$

P3.4 Indoor radon mapping: The Ghanaian strategy Part 1

I Nsiah-Akoto, Ghana Atomic Energy Commission, Ghana

P3.5 The Distribution of Metals in Different Parts of the Alyssium Murale Plant

N Khodabakhsh Shahrestani, Guilan Education Organization, Iran

A Deda, Professional College of Tirana, Albania

P3.6 Bio-material from argan shells: Size effect on thermal conductivity

A Derouiche, Hassall University of Casablanca, Morocco

P3.7 Rare Earth Elements (REEs), and Th in the Pra River Basin of Ghana

C Anderson, University of Cape Coast, Ghana

P3.8 Temporal Variation of Volumetric Water Content

O Owoola, Federal University of Technology, Nigeria

P3.9 Comparative Assessment of a New Hydrological Modelling Approach for Prediction of Runoff in Gauged and Ungauged Basins, and Climate Change Impacts Assessment

C Gaba, University of Abomey-Calavi, Benin

P3.10 Assessment of Indoor and Outdoor Gamma Radiation Exposure Levels in Selected Residential Buildings across Ondo State, Nigeria

B Oladele, Federal University of Technology, Nigeria



P3.11 Identification of Heavy Metals Concentration in Groundwater

A Deda, Professional College of Tirana, Albania

P3.12 Structural characterization of the soils of plantations of sugar cane of Chiclayo-Region Lambayeque by Physical Techniques

J Aleida, University Cesar Vallejo, Peru

P3.13 A preliminary study on organoclays from two Peruvian clay pits

M Cerón Loayza, San Marcos University, Peru

P3.14 Study of Radium and Radon Exhalation Rate in Soil Sample, Offinso Municapility

I Nsiah-Akoto, Ghana Atomic Energy Commission, Ghana

P3.15 Natural by-products inclusion in cementitious materials for energetically efficient buildings

L Romero-Salazar, Mexico State University, Mexico

P3.16 Organic Montmorillonite- PolyVinyl Alcohol-Co-PolyAcrylic Nanocomposite Hydrogel For Heavy Metal Water Decontamination M Mohsen, Ain Shams University, Egypt

P3.17 Performance of Regulatory Inspection on Radiation Emitting Devices and Foodstuffs in Zanzibar, Tanzania

F Khamis, Tanzania Atomic Energy Commission, Tanzania

Session 4

Nanoscale Physics

WG 5

P4.1 The Effect of Growth Temperature on Magnetic Properties of Electrocrystallized Iron Oxide Nanoparticles in the Presence of B-cyclodextrin

S Mosivand, Lorestan University, Iran

P4.2 Electronic structures of ZnO thin film at the interface with graphene

R Jung, Kwangwoon University, Korea, Republic of (South Korea)

P4.3 Wide band gap semiconductors as ionising radiation detectors

A Lohstroh, University of Surrey, United Kingdom

P4.4 Growth and Characterization of Zinc Silicate Nanowires

W Mahmood, COMSATS Institute of Information and Technology, Pakistan

P4.5 Investigation of Mechanical Properties for Nanoporous and Bulk Li-Mn-O Composites Materials

R Ledwaba, University of Limpopo, South Africa

P4.6 Characterization of β -Ga2O3 nanowires and their application in CO gas sensors

M Ho, National Chung Hsing University, Taiwan

P4.7 Size-controlled Ag nanoprism synthesized by seed-induced growth method

X Sun, Harbin Institute of Technology, China

P4.8 Fabrication and Characterization of Carbon Nanotube/ Cellulose Composite Paper

M Kazi, University of Dhaka, Bangladesh



P4.9 Magnetic and structural properties of Co-Ni nano-dumbbells

V Pierron-Bohnes, French Physical Society, France

P4.10 Graphene-magnetite nanocomposites for hyperthermia applications

K Akram, COMSATS Institute of Information technology, Pakistan

P4.11 Effect of organic materials used in the synthesis on the emission of CdSe Quantum Dots

H Yang, Pusan National University, Korea, Republic of (South Korea)

P4.12 DC electrical conductivity of Plasma Polymerized 2-(diethylamino)ethylmethacrylat Thin Films

T Afroze, Ahsanullah University of Science and Technology, Bangladesh

P4.13 Green stabilization of magnetite nanoparticles

H Kahil, Ain Shams University, Egypt

P4.14 Non-noble Metal Catalyst Sensitized Si Nanowires-array Photoelectrodes for Water Splitting

S Hu, National Taiwan Normal University, Taiwan

P4.15 Semiconductor Nanowires: The Route to Nanoscale Terahertz Technology

J Boland, Univeristy of Oxford, United Kingdom

Session 5

Women in Physics in the Workplace

Aston Webb WG 12

P5.1 European Platform of Women Scientists - The Voice of Women Scientists in EU Research Policy

D Satkovskiene, Vilnius University Institute of Theoretical Physics and Astronomy, Lithuania

P5.2 Looking at How to Improve Diversity in the Nuclear Sector in the UK

D Watson, Sellafield Ltd, United Kingdom

P5.3 Diversity and Inclusivity at AWE

J Coltman, AWE, United Kingdom

P5.4 Negotiating a Career in Physics

A Dasgupta, University of Lethbridge, Canada

P5.5 Project JUNO

J Dyer, Institute of Physics, United Kingdom

P5.6 Unconscious gender bias in academia: from PhD students to professors

K Poppenhaeger, Queens University Belfast, United Kingdom

P5.7 Recent Activities of Gender Equality Promotion in the Physical Society of Japan

T Tohyama, Tokyo University of Science, Japan

P5.8 GENERA Gender-in-Physics days in Europe

S Hesping, Dutch National Research Organisation, Netherlands



P5.9 Women in Physics Leadership

L McCullough, University of Wisconsin-Stout, United States

P5.10 Japanese Women Researchers: Are They Active? – Trends in Numbers of Members in JSAP

N Kasai, NTT Basic Research Laboratories, Japan

P5.11 Gender equality and successful scientific research are strongly tied together

E Boniolo, University of Bristol, United Kingdom

P5.12 The Science in Australian Gender Equity (SAGE) Pilot of Athena SWAN

S Maddison, Swinburne University of Technology, Australia

P5.13 Actions for Gender Equality in the Japan Society of Applied Physics

N Matsuki, Kanagawa University, Japan

P5.14 Supporting Academic Women in Physics in the U.S.: Peer Mentoring with eAlliances

B Cunningham, American Association of Physics Teachers, United States

P5.15 Gender Balance Initiatives as part of European Network COST Action Nanoscale Quantum Optics

R Oulto, University of Bristol, United Kingdom

P5.16 Repositioning the gender gap in UK physics: mapping pathways to success

J Miller-Friedmann, Oxford, United Kingdom

P5.17 Improving Gender Balance

J Rowson, Institute of Physics, United Kingdom

P5.18 Physics and Gender

S Mosivand, Lorestan University, Iran

P5.19 LGBT+

J Dyer, Institute of Physics, United Kingdom

P5.20 BASNET Forumas Association Activities in the Baltic States Region

D Satkovskiene, Vilnius University Institute of Theoretical Physics and Astronomy, Lithuania

Session 6

Teaching Girls and Women in Physics

Aston Webb G33

P6.1 The Importance of Female Role Models in Schools: Evidence for a Female 'Brian Cox'

J Boland, Univeristy of Oxford, United Kingdom

P6.2 Women in Acoustics at Moscow University

E Ermolaeva, Moscow Lomonosov State University, Russia

P6.3 A model of culturally relevant pedagogy in physics

A Johnson, St. Mary's College of Maryland, United States

P6.4 Keeping Girls in Physics: Eight Strategies

S Hayton, King Edward High School, Birmingham, United Kingdom



P6.5	Relationship between stereotype threat and standardized test performance in physics
	C Singh, University of Pittsburgh, United States

P6.6 Situation of female Physics students in the National Autonomous University of Mexico

B González-Fernández, University of Puebla, Mexico

P6.7 How Imperial College London Support Women in Physics

J Wade, Imperial College London, United Kingdom

P6.8 Enhancing female student's interest and motivations on physics by helping to construct their own computer simulations

W Oh, Chungbuk National University, Korea, Republic of (South Korea)

P6.9 Teaching Introductory Undergraduate Classes using Multimedia Resources

A Predoi-Cross, Canadian Association of Physicists, Canada

P6.10 Training an all-female undergraduate team to design a microscope incubator and microfluidic devices for single cell studies

J Johnson, St. Catherine University, United States

P6.11 Initiating and sustaining cultural change in undergraduate physics departments

A Johnson, St. Mary's College of Maryland, United States

P6.12 Developing Self-Efficacy in the Physics Classroom through hands-on Projects

A Richardson, Chandler Gilbert Community College, United States

P6.13 Exploring Pedagogical Content Knowledge of Physics Instructors Using the Force Concept Inventory

C Singh, University of Cincinnati, United States

P6.14 Identifying the characteristics of assessment questions with a particularly large attainment gap by gender

S Jordan, Open University, United Kingdom

P6.15 Compare effect of hybrid teaching with traditional teaching on learning of physics

N Khodabakhsh Shahrestani, Guilan Education Organization, Iran

P6.16 Identifying gender variations grade achievement for individual modules

A Lohstroh, University of Surrey, United Kingdom

P6.17 Gender differences in BSc and MPhys degree pathways in the UK

F Laughton, University of Bath, United Kingdom