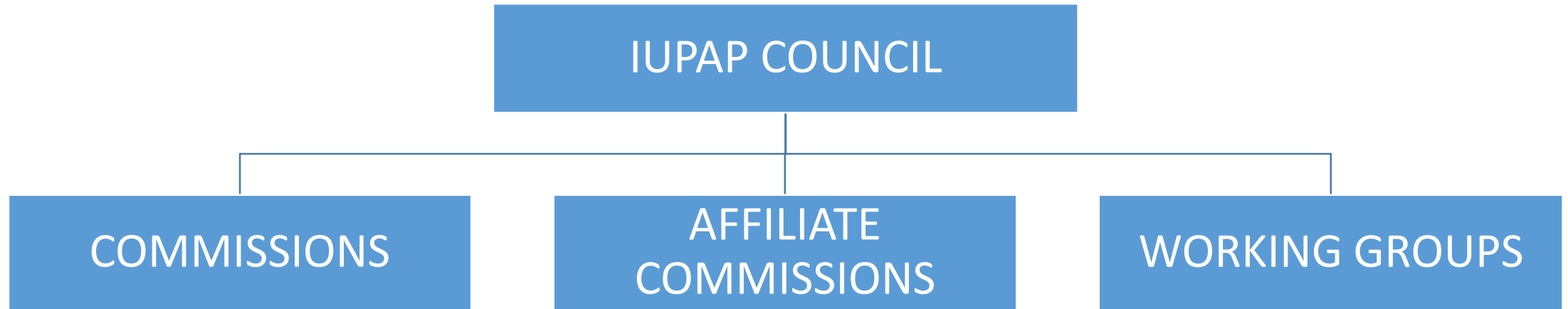


INTRODUCTION OF C&CC MEMBERS



IUPAP COUNCIL/EXECUTIVE COUNCIL

President	Kennedy Reed	} Commission for Policy and Finance (C1)
Past President	Bruce McKellar	
President-Designate	Michel Spiro	
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Vice-President at Large (Gender Champion)	Silvina Ponce Dawson	
Vice-President at Large (New Members)	Nithaya Chetty	
Vice-President at Large (Outreach)	Vitaly Kveder	
Vice-President from Commission Chairs	Rahul Pandit	
Vice-President from Commission Chairs	Rolf Haug	
Vice-President from Commission Chairs	Laura Greene	
Vice-President from Commission Chairs	Claes Fahlander	
Vice-President from Commission Chairs	Roberto Nardi	

**PRESIDENT /
COMMISSION ON POLICY AND FINANCE (C1)**



KENNEDY REED

KENNEDY REED



- **Affiliation to IUPAP:**

President

- **Commission/Category:**

Commission on Policy And Finance (C1)

- **Current Job Title:**

- **Current affiliation (Institution):**

- **Area of Study/Research/Expertise:**

- **Last Physics paper written with date of publication:**

- **Any other information:**

BRUCE H McKELLAR



- **Affiliation to IUPAP:**

Past - President

- **Commission/Category:**

Commission on Policy And Finance (C1)

- **Current Job Title:**

Emeritus Professor

- **Current affiliation (Institution):**

University of Melbourne

- **Area of Study/Research/Expertise:**

Theoretical Physics

- **Last Physics paper written with date of publication:**

Relativistic dipole interaction and the topological nature for induced HMW and AC phases ,
Phys.Lett. A381 (2017) 1780-1783

- **Any other information:**

My wife and I have just been walking the Thames Path, part of my retirement project

MICHEL SPIRO



- **Affiliation to IUPAP:**

President - Designate

- **Commission/Category:**

Commission on Policy And Finance (C1)

- **Current Job Title:**

Emeritus Research Director

- **Current affiliation (Institution):**

CEA, France

- **Area of Study/Research/Expertise:**

Particle and Astroparticle Physics

- **Last Physics paper written with date of publication:**

Limits on the Macho Content of the Galactic Halo from the EROS-2 Survey of the Magellanic Clouds , published in A&A : 2007A&A...469..387T

- **Any other information:**

Former President of CERN Council (2010 - 2013)

PHUA, KOK KHOO



- **Affiliation to IUPAP:**

Secretary General

- **Commission/Category:**

Commission on Policy And Finance (C1)

- **Current Job Title:**

Founding Director Emeritus, Institute of Advanced Studies

- **Current affiliation (Institution):**

Nanyang Technological University

- **Area of Study/Research/Expertise:**

Theoretical High Energy Physics (particle physics, particularly in the field of phenomenology in high energy collisions)

- **Last Physics paper written with date of publication:**

"From "God particle" Higgs boson to Fundamental Science Research", Wuli (Physics), vol.41, no.3 p.194, (2012)

- **Any other information:**

RUDZANI NEMUTUDI



- **Affiliation to IUPAP:**

Associate Secretary General

- **Commission/Category:**

Commission on Policy And Finance (C1)

- **Current Job Title:**

Deputy Director:

- **Current affiliation (Institution):**

iThemba LABS (Laboratory for Accelerator Based Sciences), Cape Town, South Africa

- **Area of Study/Research/Expertise:**

Mesoscopic semiconductor devices fabricated using proximal probe microscopic techniques such as AFM (Atomic Force Microscope) and STM (Scanning Tunneling Microscope), surface science and accelerator-based ion beam analysis¹⁹.

- **Last Physics paper written with date of publication:**

Simonkolleite nano-platelets: Synthesis and temperature effect on hydrogen gas sensing properties Applied Surface Science 258 (2012)p7839

- **Any other information:**

Member of the Executive Council of the South African Institute of Physics (SAIP)

KWEK, LEONG CHUAN



- **Affiliation to IUPAP:**

Deputy Secretary General

- **Commission/Category:**

Commission on Policy And Finance (C1)

- **Current Job Title:**

Professor

- **Current affiliation (Institution):**

Center for Quantum Technologies, National University of Singapore

- **Area of Study/Research/Expertise:**

Quantum Information Science and Atomtronics, Physics

- **Last Physics paper written with date of publication:**

An integrated silicon photonic chip platform for continuous-variable quantum key distribution, Aug 2019 (<https://www.cqc2t.org/integrated-silicon-photonic-chip-platform-continuous-variable-quantum-key-distribution/>)

- **Any other information:**

Quantum information science

WANG, ENGE



- **Affiliation to IUPAP:**

Vice-President at Large (Finance)

- **Commission/Category:**

Commission on Policy And Finance (C1)

- **Current Job Title:**

President Emeritus and Chair Professor of Physics

- **Current affiliation (Institution):**

Peking University

- **Area of Study/Research/Expertise:**

Quantum Information Science and Atomtronics

- **Last Physics paper written with date of publication:**

- **Any other information:**

Chairman of Advisory Board, Institute of Physics, Chinese Academy of Science. My main research accomplishments include the fundamental understanding of the growth kinetics of surface-based nanostructures, and study of water behaviors in confinement system. I am also a member of the World Academy of Sciences (TWAS), and a Councilor of the American Physical Society.

MONICA PEPE-ALTARELLI



- **Affiliation to IUPAP:**

Vice-President at Large (Centenary)

- **Commission/Category:**

Commission on Policy And Finance (C1)

- **Current Job Title:**

Senior staff in Experimental Physics

- **Current affiliation (Institution):**

CERN

- **Area of Study/Research/Expertise:**

High Energy Physics

- **Last Physics paper written with date of publication:**

Precision measurement of the Λ^+c , Ξ^+c and Ξ^0c baryon lifetimes, Phys. Rev. D 100, 032001 (2019), 1 August 2019

- **Any other information:**

Member of the LHCb collaboration

SILVINA PONCE DAWSON



- **Affiliation to IUPAP:**

Vice-President at Large (Gender Champion)

- **Commission/Category:**

Vice-President at Large

- **Current Job Title:**

Professor, Researcher

- **Current affiliation (Institution):**

University of Buenos Aires and CONICET

- **Area of Study/Research/Expertise:**

Biological Physics; Dynamical Systems

- **Last Physics paper written with date of publication:**

Changes in Ca^{2+} Removal Can Mask the Effects of Geometry During IP3R Mediated Ca^{2+} Signals; July 31st, 2019

- **Any other information:**

I have recently been chair of the LOC of the largest conference of the C3 commission, StatPhys

NITHAYA CHETTY



- **Affiliation to IUPAP:**

Vice-President at Large (New Members)

- **Commission/Category:**

Vice-President at Large

- **Current Job Title:**

Professor of Physics

- **Current affiliation (Institution):**

University of Pretoria

- **Area of Study/Research/Expertise:**

Theoretical and Computational Solid State Physics; also Physics Education

- **Last Physics paper written with date of publication:**

Electronic properties of vacancies in hydrogenated bilayer graphene, R.E. Mapasha, E. Igumbor; F. Andriambelaza; N. Chetty accepted Physica B August 2019.

- **Any other information:**

I have worked closely with Jim Gubernatis (LANL) and the APS to launch the African Physics Newsletter. Two years in the planning, 1st issue was published early 2019.

VITALY KVEDER



- **Affiliation to IUPAP:**

Vice-President at Large (Outreach)

- **Commission/Category:**

Vice-President at Large

- **Current Job Title:**

Principal Researcher

- **Current affiliation (Institution):**

Institute of Solid State Physics (ISSP RAS)

- **Area of Study/Research/Expertise:**

Experimental Physics of Semiconductors in particular, the study of electronic properties of defects in semiconductors and “defect engineering”

- **Last Physics paper written with date of publication:**

"Interaction of Chromium Atoms with Dislocations and as-Grown Vacancy Complexes and its Impact on the Electronic Properties of FZ-Si", Phis.Stat.Sol. B, v.256, AUG 2019, DOI: 10.1002/pssb.201900013

- **Any other information:**

Coordinator of Physics and Space Sciences Panel in Expert Council for Presidential research program in Russian Science Foundation

Vice-Presidents Elected from the Commission Chairs

- Rahul Pandit (C3)
- Rolf Haug (C8)
- Laura H Greene (C10)
- Claes Fahlander (C12)
- Roberto Nardi (C14)

PETER MOHR



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Symbols, Units, Nomenclature, Atomic Masses & Fundamental Constants (C2)

- **Current Job Title:**

Physicist

- **Current affiliation (Institution):**

National Institute of Standards and Technology (NIST)

- **Area of Study/Research/Expertise:**

Theoretical physics, mainly QED

- **Last Physics paper written with date of publication:**

Angles are inherently neither length ratios nor dimensionless Paul Quincey¹, Peter J Mohr² and William D Phillips² Published 28 June 2019 • Metrologia, Volume 56, Number 4

- **Any other information:**

Also work on fundamental constants and units. Work on producing CODATA recommended values of fundamental constants. Work on the Consultative Committee on Units of the BIPM on formulation of the International System of Units and its recent revision.

RAHUL PANDIT



- **Affiliation to IUPAP:**

Chair / Vice-Presidents Elected from the Commission Chairs

- **Commission/Category:**

Commission on Statistical Physics (C3)

- **Current Job Title:**

Professor of Physics and Chair of the Division of Physical and Mathematical Sciences

- **Current affiliation (Institution):**

Indian Institute of Science

- **Area of Study/Research/Expertise:**

Statistical Physics/Turbulence/Mathematical Models for Cardiac Tissue/Cold Atom Systems

- **Last Physics paper written with date of publication:**

D. Banerjee and R. Pandit. Two-dimensional magnetohydrodynamic turbulence with large and small energy-injection length scales. Phys. Fluids 31, 065111 (2019); <https://doi.org/10.1063/1.5097597>.

- **Any other information:**

NIL

SUNIL GUPTA



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Astroparticle Physics (C4)

- **Current Job Title:**

Senior Professor

- **Current affiliation (Institution):**

The Tata Institute of Fundamental Research, Mumbai

- **Area of Study/Research/Expertise:**

Astroparticle Physics

- **Last Physics paper written with date of publication:**

Measurement of the Electrical Properties of a Thundercloud Through Muon Imaging by the GRAPES-3 Experiment (Phys. Rev. Lett. Vol 122 105101 2019) published on 15 March 2019

- **Any other information:**

I lead the GRAPES-3 experiment which contains a sensitive muon telescope ($E > 1$ GeV) to measure effects of interplanetary magnetic field and thunderstorm activity in the atmosphere.

WILLIAM P HALPERIN



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Low Temperature Physics (C5)

- **Current Job Title:**

Orrington Lunt Professor of Physics

- **Current affiliation (Institution):**

Northwestern University

- **Area of Study/Research/Expertise:**

Low Temperature Physics, Superfluids and Superconductors

- **Last Physics paper written with date of publication:**

Corrections to the Higgs Mode Masses in Superfluid ^3He , Phys. Rev. B 99, 054510 (2019)

- **Any other information:**

Fritz London Memorial Prize, 2017

RAMIN GOLESTANIAN



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Biological Physics (C6)

- **Current Job Title:**

Director/Professor of Theoretical Condensed Matter Physics

- **Current affiliation (Institution):**

Max Planck Institute for Dynamics and Self-Organization/Oxford University

- **Area of Study/Research/Expertise:**

Physics of Living Matter

- **Last Physics paper written with date of publication:**

Bose-Einstein-like Condensation in Scalar Active Matter with Diffusivity Edge, R. Golestanian, Phys. Rev. E 100, 010601(R) (2019) (Published 15 July 2019)

- **Any other information:**

NIL

ROLF HAUG



- **Affiliation to IUPAP:**

Chair / Vice-Presidents Elected from the Commission Chairs

- **Commission/Category:**

Commission on Semiconductors (C8)

- **Current Job Title:**

University Professor

- **Current affiliation (Institution):**

Leibniz University Hannover, Germany

- **Area of Study/Research/Expertise:**

Quantum effects in semiconducting nanostructures

- **Last Physics paper written with date of publication:**

Quantum stochastic resonance in an a.c.-driven single-electron quantum dot; T. Wagner, P. Talkner, J.C. Bayer, E. P. Ruggeramigabo, P. Hänggi, and R.J. Haug; Nature Physics 15, 330 (2019).

- **Any other information:**

BURKARD HILLEBRANDS



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Magnetism (C9)

- **Current Job Title:**

Professor

- **Current affiliation (Institution):**

TU Kaiserslautern

- **Area of Study/Research/Expertise:**

Solid State Physics, Magnetism

- **Last Physics paper written with date of publication:**

Broadband enhancement of the magneto-optical activity of hybrid Au loaded Bi:YIG

Spiridon D. Pappas, Philipp Lang, Tobias Eul, Michael Hartelt, Antonio García-Martín, Burkard Hillebrands, Martin Aeschlimann, Evangelos Th. Papaioannou; 28 May 2019

(<https://www.physik.uni-kl.de/hillebrands/publications/publications-in-journals/>)

- **Any other information:**

LAURA H GREENE



- **Affiliation to IUPAP:**

Chair / Vice-Presidents Elected from the Commission Chairs

- **Commission/Category:**

Commission on Structure and Dynamics of Condensed Matter (C10)

- **Current Job Title:**

Chief Scientist and Eppes Professor

- **Current affiliation (Institution):**

National MagLab and Florida State University

- **Area of Study/Research/Expertise:**

Quantum Materials Physics

- **Last Physics paper written with date of publication:**

Laura H Greene, Joe Thompson, and Jörg Schmalian, “Strongly correlated electron systems—reports on the progress of the field” Reports on Progress in Physics 80, 030401 (2017). I am presently writing a paper that identifies an exotic Cooper pairing mechanism in a heavy fermion superconductor that should be submitted by Sept. 15.

- **Any other information:**

I was the APS President in 2017 and my theme was "Science Diplomacy and Human Rights." My last 4 papers were in those areas and science policy.

HEIDI SCHELLMAN



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Particles and Fields (C11)

- **Current Job Title:**

Head

- **Current affiliation (Institution):**

Department of Physics, Oregon State University

- **Area of Study/Research/Expertise:**

Elementary Particle Physics

- **Last Physics paper written with date of publication:**

Measurement of the Muon Antineutrino Double-Differential Cross Section for Quasielastic-like Scattering on Hydrocarbon at $E\nu \sim 3.5\text{GeV}$, 2018

- **Any other information:**

CLAES FAHLANDER



- **Affiliation to IUPAP:**

Chair / Vice-Presidents Elected from the Commission Chairs

- **Commission/Category:**

Commission on Nuclear Physics (C12)

- **Current Job Title:**

Professor

- **Current affiliation (Institution):**

Lund University, Sweden

- **Area of Study/Research/Expertise:**

Nuclear Physics

- **Last Physics paper written with date of publication:**

Discovery of Superheavy Elements, March 2019

- **Any other information:**

Presently involved in superheavy element research

SEKAZI K. MTINGWA



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Physics for Development (C13)

- **Current Job Title:**

Principal Partner

- **Current affiliation (Institution):**

TriSEED Consultants (North Carolina, USA)

- **Area of Study/Research/Expertise:**

Accelerator/Hi Energy/Nuclear Physics

- **Last Physics paper written with date of publication:**

"Towards an African Light Source" Connell, S.H., Mtingwa, S.K., Dobbins, T. et al. Biophys Rev (2019) 11: 499. <https://doi.org/10.1007/s12551-019-00578-3>

- **Any other information:**

In 2000, was first person to advocate for a Pan-African Synchrotron Light Source

ROBERTO NARDI



- **Affiliation to IUPAP:**

Chair / Vice-Presidents Elected from the Commission Chairs

- **Commission/Category:**

Commission on Physics Education (C14)

- **Current Job Title:**

Full Professor

- **Current affiliation (Institution):**

State University of São Paulo (UNESP) - Brazil

- **Area of Study/Research/Expertise:**

Physics Education Research

- **Last Physics paper written with date of publication:**

The Presence of Physics Education Research in the Curriculum of an Initial Teacher Education Programme To cite this article: A C S Jesus and R Nardi 2019 J. Phys.: Conf. Ser. 1286 012045

<https://iopscience.iop.org/article/10.1088/1742-6596/1286/1/012045/pdf>

- **Any other information:**

Science Education Program - UNESP / Ciência & Educação Journal - Editor

ROBERTO RIVAROLA



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Atomic, Molecular, and Optical Physics (C15)

- **Current Job Title:**

National Director - Division of Exact and Natural Sciences

- **Current affiliation (Institution):**

Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

- **Area of Study/Research/Expertise:**

Atomic and Molecular Physics

- **Last Physics paper written with date of publication:**

Bare-carbon-ion-impact electron emission from adenine molecules: Differential and total cross-section measurements, Physical Review A 100, 012703 (July 8th 2019)

- **Any other information:**

My research is developed in the Instituto de Física Rosario, which depends of CONICET and the Universidad Nacional de Rosario (UNR). I am Superior Researcher at CONICET and Full Professor at the UNR. My research interest is focussed on the dynamic interaction of ion beams with atoms and molecules and its application on dosimetry in biological matter.

MINH QUANG TRAN



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Plasma Physics (C16)

- **Current Job Title:**

EUROfusion Project Leader of WP HCD

- **Current affiliation (Institution):**

Swiss Plasma Center-EPFL- Station 13 - 1015 Lausanne

- **Area of Study/Research/Expertise:**

Fusion physics and technology

- **Last Physics paper written with date of publication:**

High-power gyrotrons for electron cyclotron heating and current drive, M.K.A. Thumm¹, G.G. Denisov², K. Sakamoto³ and M.Q. Tran⁴, Published 5 June 2019;

<https://dx.doi.org/10.1088/1741-4326/ab2005> 2019

- **Any other information:**

TSUNEYUKI (JOHN) OZAKI



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Laser Physics and Photonics (C17)

- **Current Job Title:**

Professor

- **Current affiliation (Institution):**

Institut national de la recherche scientifique (INRS), Canada

- **Area of Study/Research/Expertise:**

Ultrafast laser science

- **Last Physics paper written with date of publication:**

“Terahertz control of air lasing” (2019)

- **Any other information:**

I also have projects on the application of ultrafast lasers in various domains, including medicine, biology and the environment. Ultrafast lasers have also been rapidly entering the industry, and it would be great if we could have more researchers from the industry involved in IUPAP.

BRUNO NACHTERGAELE



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Mathematical Physics (C18)

- **Current Job Title:**

Professor

- **Current affiliation (Institution):**

University of California, Davis

- **Area of Study/Research/Expertise:**

Quantum Statistical Mechanics, Quantum many-body Systems

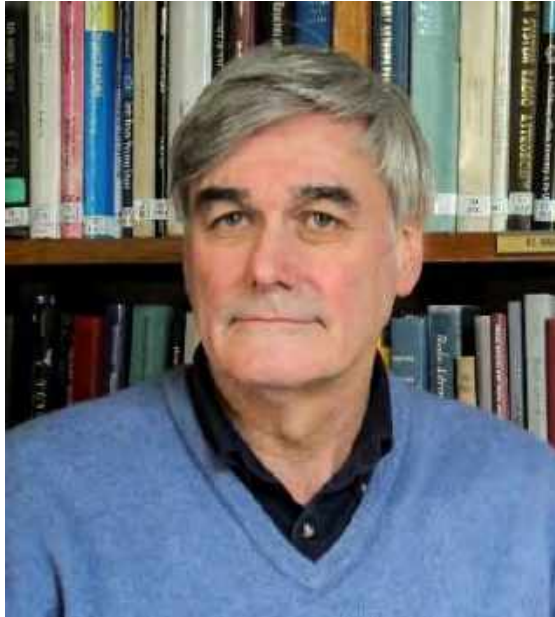
- **Last Physics paper written with date of publication:**

Quasi-Locality Bounds for Quantum Lattice Systems. Part I. Lieb-Robinson Bounds, Quasi-Local Maps, and Spectral Flow Automorphisms, J. Math. Phys. , June 2019.

- **Any other information:**

Member of the Department of Mathematics and the Center of Quantum Mathematics and Physics (QMAP)

GERARD GILMORE



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Astrophysics (C19)

- **Current Job Title:**

Professor of Experimental Philosophy

- **Current affiliation (Institution):**

Cambridge University, UK

- **Area of Study/Research/Expertise:**

Astrophysics

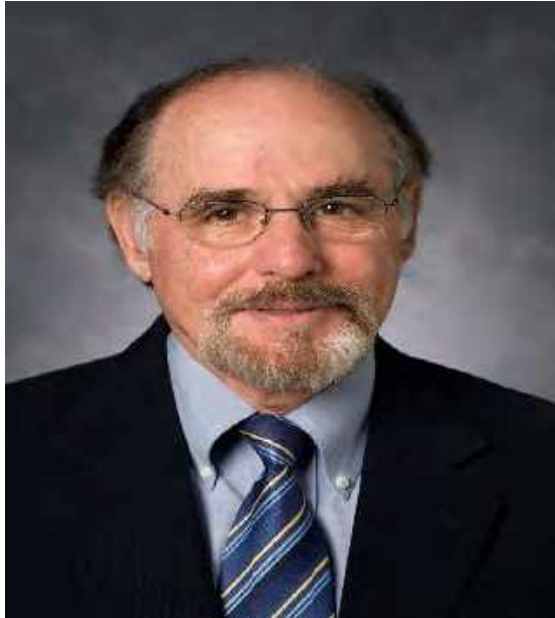
- **Last Physics paper written with date of publication:**

The Gaia-ESO Survey: asymmetric expansion of the Lagoon Nebula cluster NGC 6530 from GES and Gaia DR2. July 2019.

- **Any other information:**

NIL

DAVID P LANDAU



- **Affiliation to IUPAP:**

Chair

- **Commission/Category:**

Commission on Computational Physics (C20)

- **Current Job Title:**

Distinguished Research Professor

- **Current affiliation (Institution):**

The University of Georgia

- **Area of Study/Research/Expertise:**

Computer Simulations in Statistical Physics

- **Last Physics paper written with date of publication:**

“Probing predictions due to the nonlocal interface Hamiltonian: Monte Carlo simulations of interfacial fluctuations in Ising films”, Lijun Pang, D. P. Landau, and Kurt Binder, Phys. Rev. E 100, 023303 (7 pages) (2019).

- **Any other information:**

While initially trained as an experimentalist, I have been developing and using diverse computer simulation methods in multiple focus areas of statistical physics for almost five decades.

ROBERTA RAMPONI



- **Affiliation to IUPAP:**

President

- **Commission/Category:**

International Commission for Optics (AC1)

- **Current Job Title:**

Director

- **Current affiliation (Institution):**

CNR-Institute for Photonics and Nanotechnologies

- **Area of Study/Research/Expertise:**

Femtosecond laser micromachining for integrated quantum optics and optomicrofluidic devices

- **Last Physics paper written with date of publication:**

Quantum Micro–Nano Devices Fabricated in Diamond by Femtosecond Laser and Ion Irradiation (2019)

- **Any other information:**

I am also Professor of Physics at Politecnico di Milano and deeply involved in policy-making, outreach and dissemination activities in the area of Photonics

BEVERLY BERGER



- **Affiliation to IUPAP:**

Secretary, ISGRG (AC2)

- **Commission/Category:**

International Society on General Relativity and Gravitation, ISGRG (AC2)

- **Current Job Title:**

Retired

- **Current affiliation (Institution):**

N/A

- **Area of Study/Research/Expertise:**

Gravitational Physics

- **Last Physics paper written with date of publication:**

All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run (July 2019)

- **Any other information:**

Retired from (US) National Science Foundation, Program Director for Gravitational Physics

MICHAEL TAROUDAKIS



- **Affiliation to IUPAP:**

President

- **Commission/Category:**

International Commission for Acoustics, ICA (AC3)

- **Current Job Title:**

Professor

- **Current affiliation (Institution):**

University of Crete, Greece

- **Area of Study/Research/Expertise:**

Acoustics

- **Last Physics paper written with date of publication:**

Taroudakis M.I.: "Statistical Characterization of Acoustic Signals Using 1D Wavelet Transforms with Applications in Acoustical Oceanography" J. Th. Comp. Acous. Vol. 26, No. 4, 1850047 DOI: 10.1142/S2591728518500470 (2018).

- **Any other information:**

Past President of the European Acoustics Association. Former Rector of the University of Crete, Greece. Professor at the Department of Mathematics and Applied Mathematics of the University of Crete

JOHN DAMILAKIS



- **Affiliation to IUPAP:**

President

- **Commission/Category:**

International Organisation on Medical Physics, IOMP (AC4)

- **Current Job Title:**

Professor

- **Current affiliation (Institution):**

University of Crete, Greece

- **Area of Study/Research/Expertise:**

Medical Physics

- **Last Physics paper written with date of publication:**

Risk of contralateral breast and ipsilateral lung cancer induction from forward-planned IMRT for breast carcinoma, European Journal of Medical Physics, 2019

- **Any other information:**

Vice President and President-elect of IOMP (International Organization for Medical Physics)