1968 - 2018

David Lee

Secretary General

Presentation to the SEENET-MTP

11 June 2018



42 Member Societies

Over 130,000 physicists

To promote physics in Europe

1968 – A new perspective



December 1968
Apollo 8 view of the Earth rising over the moon, the first time our planet is seen from space!
(Photo: NASA/Getty)



Europe is divided

1968 – Vietnam War



Hovering U.S. Army helicopters covering South Vietnamese ground troops.



April, Hue, South Vietnam:
A paratrooper of 101st Airborne,
guides a medical evacuation to
pick up casualties during a
patrol (Tet Offensive)
(Photo: Art Greenspon/AP)

1968 – Civil Rights Movement



Memphis, Tennessee
National guardsmen
brandishing bayonets
block civil rights activists
trying to stage a
protest, flanked by tanks
(Photo: Bettman/Corbis)

Memphis, Tennessee:

The civil rights leader Dr Martin Luther King Jr lying in state as his colleagues pay their respects to him. (Photo: Keystone/Getty)

1968 - Student revolt - Paris



May, Paris, France

A young woman challenges riot police near the Mabillon intersection, Boulevard Saint Germain (Photo: Sipa Press/Rex Features)

May, Paris, France:

Security forces block the entrance to the Place de la Sorbonne (Photo: Sipa Press/Rex Features)

1968 – The end of the Kennedy era



After John F. Kennedy, killed the 22 novembre 1963 à Dallas his brother Robert F. Kennedy is fatally shot in Los Angeles on 5 June 1968 after winning California presidential primaries

June 5, Los Angeles, USA: Senator Robert Kennedy is shot while Juan Romero, a busboy at the Ambassador hotel, tries to comfort him (Photo: Boris Yaro)

1968 - The Prague Spring

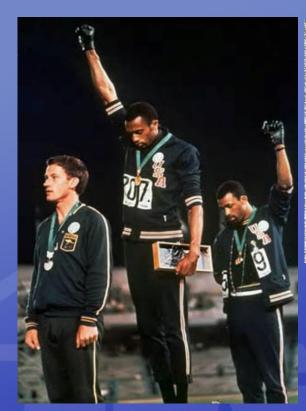


20-21 August, Prague, Czechoslovakia Emotional scenes as crowds gather after the Russian invasion (Photo: Reg Lancaster/Getty)



More tanks roll down the paved streets (Photo: Jan and Bohumil Hajny)

1968 – Political and Social Protest





Hippies and Flower Power

Olympic Games, Mexico



Astronomy

Thomas Gold explains the recently discovered radio pulsars as rapidly rotating neutron stars; subsequent observations confirm the suggestion

Computer Science

18 July – The semiconductor chip company **Intel** is founded by Gordon E. Moore and Robert Noyce in Mountain View, California.

9 Dec. – "The Mother of All Demos", Douglas Engelbart of Stanford Research Institute demonstrates for the first time the computer mouse, the video conference, teleconferencing, hypertext word processing, hypermedia, object addressing, the dynamic linker and a collaborative real-time editor using NLS

PRODUCE
PRODUCE
RA CARROTS
RE RANAMAS
RES SYTMLESS
RE ORANDES
RE APPLES
RESISTANCE
RESISTANCE
RESISTANCE
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RESISTANCE
REPLANT SOUP
ROPLES LELDON FIAD
RESISTANCE
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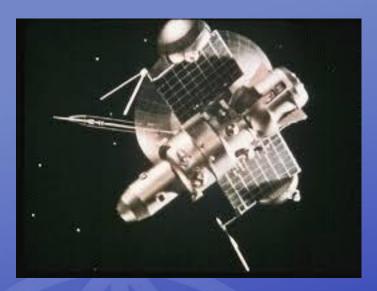




Physics
Georges Charpak develops the
multiwire proportional chamber for
particle detection at CERN



Luis Walter Alvarez (1911–1988, USA) gets the Nobel Prize in Physics "for his contributions to elementary particle physics, the discovery of a large number of resonance states, made possible by using the hydrogen bubble chamber and specific data analysis"





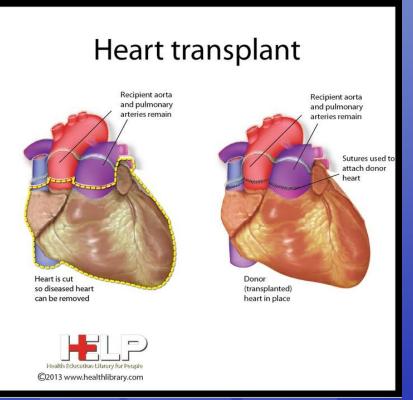
Space exploration

- •15-22 Sept. Soviet spacecraft Zond 5 becomes the first vehicle to circle the Moon (Sept. 18) and return to splashdown on Earth
- •11 Oct. Apollo program:
 NASA launched the first
 manned Apollo 7 mission,
 with astronauts W. Schirra, D.
 F. Eisele and R. W.
 Cunningham aboard.



Space exploration

24 Dec. Apollo 8 enters
 Moon orbit. F. Borman, J.
 Lovell and W. A. Anders
 are first humans to see the
 far side of the Moon and
 planet Earth as a whole.



Medicine

2 Jan. – Dr. Christiaan
 Barnard performs second
 successful human heart
 transplant, in South
 Africa, on Philip Blaiberg,
 who survives for nineteen
 months.

1968 – Cultural Events

- 4 April –2001: A Space Odyssey, based on a story by Arthur C. Clarke.
- James D. Watson The Double Helix: A Personal Account of the Discovery of the Structure of DNA



 Hey Jude, by the Beatles top of the music charts



1968 – In memoriam

- 27 March Yuri Gagarin (born 1934), Russian cosmonaut, the first man in space.
- 1 April Lev D. Landau (born 1908), Russian physicist.
- 28 July Otto Hahn (born 1879), German chemist,1944 Nobel Prize in Chemistry.
- 27 October Lise Meitner (born 1878), German physicist, discoverer in 1939, with Otto Hahn, of nuclear fission.

- Nov. 1965: G. Bernardini shares his idea of EPS at the SIF meeting in Bologna
- 16-17 April 1966: Approval of the initial resolution at a special meeting in Pisa
- 25 Nov. 1966: Steering Committee + Nat.
 Phys. Soc. meeting at CERN: no final agreement

- 16 May 1967: New meeting in London: agreement on individual, collective & associate membership
- 30 Jan. 1968: Steering Com. Meeting at Batelle, Geneva decision to hold founding meeting in Sept. 1968

- 3-4 May 1968: Steering Com. Meeting in Prague to discuss better involvement of Eastern EU countries
- 12 Sept. 1968: Emergency meeting of Steering Com. decision to go ahead as planned (after Prague invasion)

- 26 Sept. 1968: EPS constitutive assembly in Aula Magna, University Geneva
- G. Bernardini: first president of EPS
- Secretariat: first at CERN, then Institut
 Battelle, finally in Petit-Lancy (GE)
- Branch secretariat in Prague, Czech.
 Academy of Science, until 1973

 8-12 April 1969: Inaugural Conference in Florence, first of triennial conference "Trends in Physics", and first EPS General Meeting



• "... as a further demonstration of the determination of scientists to collaborate as close as possible in order to make their positive contribution to the strength of European cultural unity"

Priorities

Services to Divisions

Public Awareness

European Integration

International Cooperation

Advocacy for the physics community

Publication

Next Generation



Symbolizes deformation of space-time by a mass according to Einstein's general relativity theory



Old or new?

EPS 50

Physics in YOUR life

Fundamental science in your pocket

in your pooket, is one of the most assuring and other possessment with associational actually in the bigger of assence and tech. The known matters of specialized agreement rels, often remprised to the award on to LCD chaplage has been deeply (Mobel in physics, 1931). Another breakthrough and the DLED organic light-emitting disch naging section during CCD light sensor, by Integrated in a single device, were not W. S. Royle and G. E. Rotth (Note) in physics, possible with the collaborative work 2003). The pretter localization of your smart- kerturess research schoolists, regimen-

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TOPICS

- · Lasers for communication
- MRI for Medical Diagnostics
- · GPS for Localisation and **Navigation**
- · Particles for Health
- Physics for cultural heritage
- Modelling for climate change
- Innovative materials for sustainable Energy
- Spectroscopy for environmental monitoring
- Fundamental science in your pocket - the smartphone
- LED there be light
- Nanotechnology for clean water
- Radio waves for tracking and identification

EPS 50 – Special Sections in EPN



TOPICS

•1968 THE FOUNDATION OF EPS

•EAST WEST RELATIONS

•THE EPS STAFF 1968-2018

STUDENT MOBILITY

•THE HISTORY OF EPN

THE HUNGARIAN CONNECTION

•EPS AND THE MOVE
TO MULHOUSE

EPS 50 – Festackt

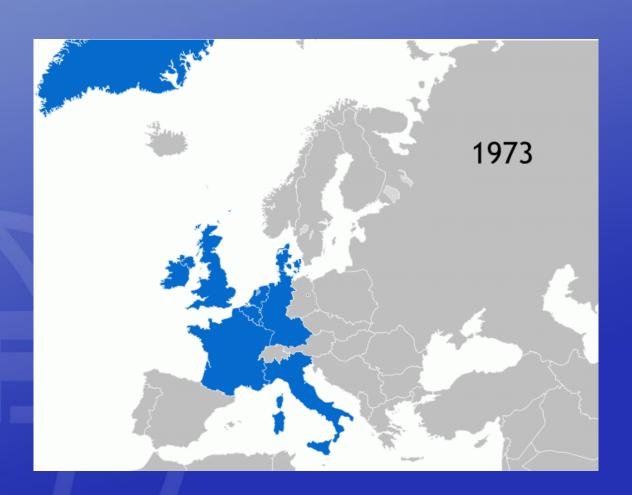
- Location: Aula Magna University Building 'Les Bastions', Geneva
- Time: Friday 28. Sept. 2018 afternoon 14.00 18.30



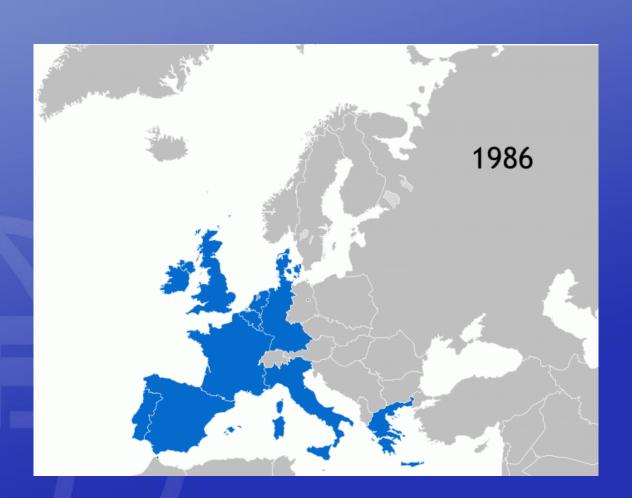
Speakers

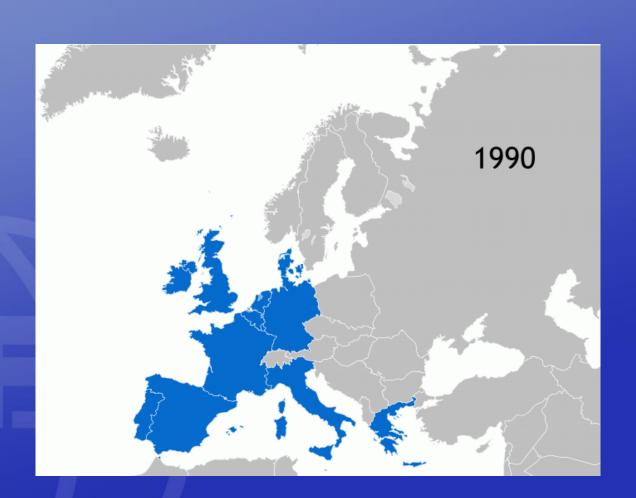
- Serge Haroche, Nobel Prize 2012
- Carlos Moedas, European
 Commissioner for Research
- Ernst von Weizäcker, Vice
 President Club of Rome
- Luisa Cifarelli, President of the Italian Physical Society and past EPS President



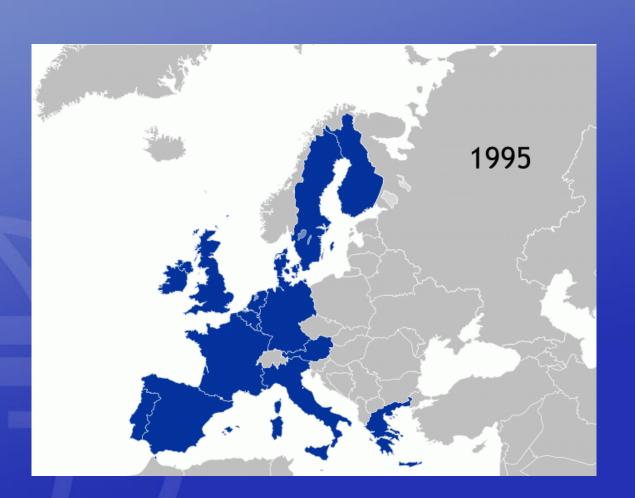


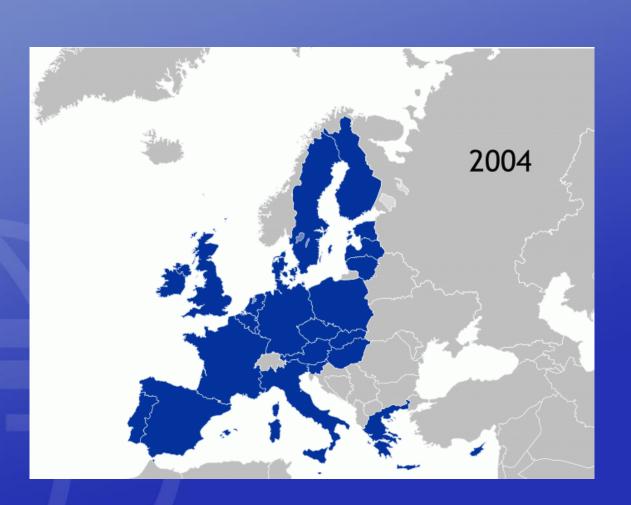


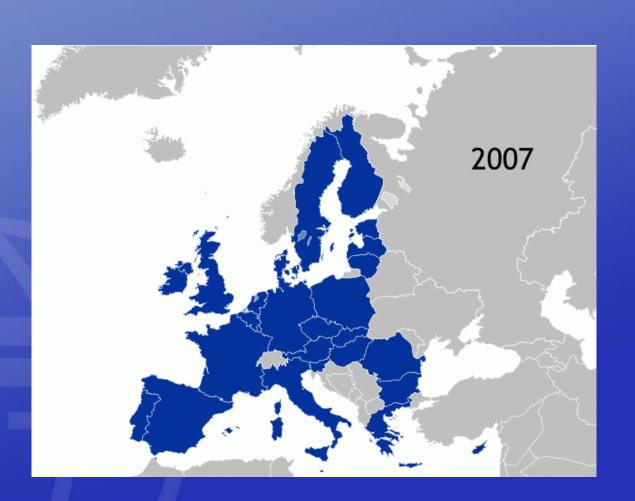


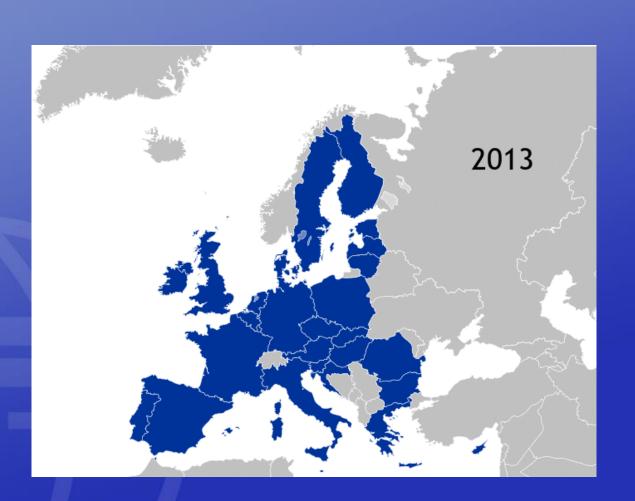












New Policy Challenges

8 priorities of the Open Science Agenda of the European Commission

- 1. Reward system and careers
- 2. Measuring quality and impact: altmetrics
- 3. Changing business models for OA publishing
- 4. FAIR open data (Findable, Accessible, Interoperable, and Reusable)
- 5. European Open Science Cloud
- 6. Research integrity
- 7. Citizen Science
- 8. Open education and skills

New Skills for scientists



Physical Society

Priorities

Services to Divisions

Public Awareness

European Integration

International Cooperation

Advocacy for the physics community

Publication

Next Generation

Thank you