



CENTRO INTERUNIVERSITARIO  
DI RICERCA SEMINARIO DI  
STORIA DELLA SCIENZA



Fondazione Puglia



## XXXVII SISFA National Congress - Bari 2017

### Programme

26 September 2017 - Tuesday

15.00-18.35 - Palazzo Ateneo, Salone degli Affreschi - Bari, Piazza Umberto I

15.00 *Registration*

15.30 *Opening remarks by institutional representatives*

*Invited talks*

16.00 **Mauro Di Giandomenico**

Fifty years of History of Science in Bari

16.45 **Bruno Ghidini**

The historical roots of the Department of Physics of Bari  
(provisional title)

**17.30-17.50 Coffee break**

17.50 **Salvatore Esposito**

Darwin and the others: the reception of Poli's Testacea outside Italy and other recent discoveries about the Molfetta scientist

18.35 *End of session*

18.45 Special evening event: Guided visit in old Bari city

**27 September 2017 - Wednesday**

9.00-13.25 - Dipartimento Interateneo di Fisica "Michelangelo Merlin",  
Campus Universitario "Ernesto Quagliariello"

*THEME: Physics and Astronomy in the 20th century*

*Invited talks*

9.00 **Nadia Robotti**

The Italian Physicists and the Great War

*Communications*

9.45 **Stefano Bordoni**

The historical roots of new debates on classical electrodynamics

10.05 **Christian Bracco**

Albert Einstein and the Marangoni family

10.25 **Mario Calamia, Monica Gherardelli**

Exact time: the first scientific application of remote communications

10.45 **Fabrizio Bònoli, Valeria Picazzi**

Is really the Guido Horn d'Arturo's tessellated telescope the forefather of the modern large multi-mirror telescopes?

**11.05-11.25 Coffee break**

*THEME: Physics between the 17th and 19th centuries*

*Communications*

11.25 **Flavia Marcacci**

All the planets are related to the Sun. Riccioli and his spiralized skies

11.45 **Grazia Zini, Susanna Bertelli, Chiara Beatrice Vicentini, Paolo Lenisa**

Pietro Torquato Tasso (1765-1842), the inventor: stories of watches and various instruments between science and everyday life

12.05 **Rosanna Del Monte, Azzurra Auteri**

The kaleidoscopes applied to figurative arts: the genius of Paolo Anania De Luca

12.25 **Roberto Mantovani**

A physics outsider: the case of the amateur scientist Gaetano Spandri (1796-1859)

12.45 **Lucia De Frenza**

Paolo Volpicelli: a scientist's career in papal Rome

13.05 **Marco Taddia**

On the supposed discovery of terrestrial helium by Luigi Palmieri  
Titolo

**13.25–14.40 Lunch break**

14.40–18.30 - Dipartimento Interateneo di Fisica "Michelangelo Merlin",  
Campus Universitario "Ernesto Quagliariello"

*THEME: Physics and other disciplines*

*Communications*

14.40 **Fausto Casi**

Silent Cinema between emigration and return

15.00 **Benedetta Campanile**

Roberto Mario Fano: an Italian among architects of the Information

15.20 **Luca Guzzardi**

Epistemic Constraints

15.40 **Laura Franchini**

The birth of the Nobel peace prize and the dispute about the use of  
a scientific innovation

16.00 **Giancarlo Albertini, Anna Sicolo**

The perception of flowing time: metaphors and mental disorders

**16.20–16.40 Coffee break**

*THEME: From antiquity to Galilei*

*Communications*

16.40 **G. Boscarino, P. Di Mauro, A. Pagano, E.V. Pagano**

Elements of Geometrical Calculation in Archimede: The laws of  
statics

17.00 **Renato Migliorato**

On the origins of a scientific paradigm

17.20 **Vincenzo Cioci**

New insights about Galileo's research on the fall of bodies. A  
review

17.40 **Annual SISFA General Assembly**

20.30 **Social Dinner**

**28 September 2017 - Thursday**

9.00-13.30 - Dipartimento Interateneo di Fisica "Michelangelo Merlin",  
Campus Universitario "Ernesto Quagliariello"

*THEME: Physics in the 20th century*

*Invited talks*

9.00 **Paolo Rossi**

Physics in Pisa in the first half of the XX century: a reappraisal

*Communications*

9.45 **Marco Di Mauro, Salvatore Esposito, Adele Naddeo**

A less known Feynman: an interplay between physics and biology at  
the Hughes Aircraft Company

10.05 **Flavio Del Santo**

Karl Popper's engagement in quantum physics in the 1960s and his  
critique of the Logic of Quantum Mechanics

10.25 **Antonino Drago**

Strocchi's formulation of Quantum Mechanics. Its improvement to an  
alternative formulation to the dominant one

**10.45-11.10 Coffee break**

*THEME: From the Middle Ages to the Modern era*

*Communications*

11.10 **Maria Luisa Tuscano**

King Ruggero II and the Reform of the Calendar

11.30 **Ivana Gambaro**

Jesuit science and epistemology in 17th century

11.50 **Mauro Gargano**

Della Porta, Colonna and Fontana and the first astronomical  
observations in Naples

*THEME: Physics in the 19th century*

12.10 **Tullio Aebischer**

Bicentenary birth A. Secchi 1818-2018: the geodetic activity

12.30 **Pasquale Tucci**

Angelo Secchi: "L'Unità delle Forze fisiche"

12.50 **Danilo Capecchi**

Christian epistemology of Gabrio Piola. The Lettere di Evasio a  
Uranio

**13.10–14.40 Lunch break**

14.40–18.50 - Dipartimento Interateneo di Fisica "Michelangelo Merlin",  
Campus Universitario "Ernesto Quagliariello"

*Topical Session*

**Franco Selleri (1936–2013): His research and legacy on the foundations of quantum mechanics and relativity**

*Invited talks*

**14.40 Ludwik Kostro**

$\Lambda$ -Units and  $\Lambda$ -Mega Quantum of Action in their Historical Context

**15.25 Gino Tarozzi**

The reality of the wave function and of EPR's predictable properties in Franco Selleri's interpretation of Quantum Mechanics

**16.10 Francesco Guerra**

Franco Selleri: the courage of ideas

**16.30–16.50 Coffee break**

*Communications*

**16.50 Giancarlo Scalera**

Can the history of the ether receive new boost from geosciences?

**17.10 Luigi Romano**

Franco Selleri and His Contribution to the Research of Foundations of Relativity Theory

**17.30 Angela Laurora**

John Bell's scientific correspondence in the early 1970s

**17.50 Angelo Baracca, Flavio Del Santo**

Franco Selleri and Karl Popper: fighting side by side for realism in physics

**18.10 Saverio Pascazio**

Franco Selleri's Legacy and the Bell Inequality

**18.30 Alexander Afriat**

The circularity of rotation

18.50 *End of sessions*

**29 September 2017 - Friday**

9.00-13.20 - Palazzo Ateneo, Salone degli Affreschi - Bari, Piazza Umberto I

*THEME: Didactics of Physics, Physics and society*

*Invited talks*

9.00 **Matteo Leone**

Physicists in the Senate of the Kingdom of Italy:1848-1943

*Communications*

9.45 **Gaetano Abate**

The Science Museum of Irpinia in Avellino: recovery, restoration, record and didactics of physics

10.05 **Daniele Buongiorno, Marisa Michelini**

The conceptual contribution of the history in learning physics: the case of optical spectroscopy

10.25 **Pietro Cerreta**

Historical experiences and fundamental concepts of electrostatics

10.45 **Lucio Fregonese**

Coulomb's electrostatic law in Italian secondary-school textbooks. A difficult situation and possible solutions

11.05 **Elena Corradini**

The Italian University Museums Network for the promotion of the physics collections: development prospects

**11.25-11.45 Coffee break**

11.45 **Panel discussion**(coordinated by **Augusto Garuccio**):

**The role of the history and didactics of physics and astronomy in the training of future physics teachers**

-**Ileana Rabuffo** (Presidente Commissione Permanente Didattica - SIF)

-**Alberto Meroni** (Associazione per l'Insegnamento della Fisica - AIF)

-**Maria Mellone** (Unione Matematica Italiana - UMI)

-**Ginevra Trinchieri** (Presidente Società Astronomica Italiana - SAIt)

-**Francesca Monti** (Rappresentante area fisica nel CUN)

13.20 *Congress ending remarks*

**13.30-14.30 Lunch break**

14.30 Special event: Cultural trip Trani (Cathedral, Synagogue and Hebrew Museum, Typewriters Museum)