Course 196

METROLOGY: FROM PHYSICS FUNDAMENTALS TO QUALITY OF LIFE
27 June – 13 July

Modules and Topics:
Module I: Metrology for Quality of Life (26 June to 29 June 2016)
• Metrology in Chemistry • Food and safety • Biomarkers • Methods and materials for clinical measurements • Climate and air quality monitoring • Redefinition of the mole

Module II: Fundamentals of Metrology (30 June to 2 July 2016)
• The New International System of Units • Fundamental constants • Quantum Metrology • Nanotechnology for Metrology • Measurement uncertainty • International metrology organization

Module III: Physical Metrology and Fundamental Constants (3 July to 6 July 2016)
• Electrical Metrology • The Future of the Mass standard • Temperature standard and mise en pratique • Optical Frequency standards • Metrology in Space • Light metrology

Lecturers and Seminar Speakers:
WALTER BICH – INRIM, Torino (Italy)
VIRGILIO DIETRICH – LNE, Paris (France)
MICHAEL DE POESTA – NPL, Teddington (UK)
NIGEL FOX – NPL, Teddington (UK)
BERND GÜTTLER – PTB, Braunschweig (Germany)
ANDY HESSEN – BIPM, Sèvres (France)
MASSIMO INZUCCHI – INRIM, Torino (Italy)
BEAT JÜCHSLER – METAS, Bern-Wabern (Switzerland)
MARTIN MILTON – BIPM, Sèvres (France)
FRANCOIS NEZ – LKB-CNRS, Université Pierre et Marie Curie, Paris (France)
WILLIAM PHILLIPS – NIST, Gaithersburg (USA)
TERRY J. QUINN – BIPM, Sèvres (France)
MARIA LUISA CASTELLO – INRIM, Torino (Italy)
PATRIZIA TAVELLA – INRIM, Torino (Italy)
THOMAS UEME – Max Planck Institut, Garching (Germany)
ROBERT I. WIELGOSZ – BIPM, Sèvres (France)
CARL WILLIAMS – NIST, Gaithersburg (USA)
STEPHEN WISE – NIST, Gaithersburg (USA)

Directors:
MASSIMO INZUCCHI – INRIM, Torino (Italy)
MARTIN MILTON – BIPM, Sèvres (France)
PATRIZIA TAVELLA – INRIM, Torino (Italy)

Scientific Secretary:
NATASCIA DE LEO – INRIM, Torino (Italy)

Deadline for application:
15 April 2016

Correspondence and application forms should be sent to:

NATASCIA DE LEO
Istituto Nazionale di Ricerca Metrologica, INRIM
Nanoscience and Materials Division
Strada delle Cacce 91
10135 Torino, Italy
Tel: +39 11 3919410-645 Fax: +39 11 346384
n.deleo@inrim.it

Participation fees and arrival and departure days:
Participants can apply for the whole Ten-Days Course (Module I, II and III) or for one of the two intersected Six-Days Course (Module I and II or Module II and III).
Module II is mandatory for each of the Six-Days Course.
The registration fee (attendance, board, lodging and Proceedings) for the whole Ten-Days Course is 1400,00 Euro VAT included (Sunday 26 June to Wednesday 6 July: arrival and departure days). The registration fee for each Six-Days Courses is 900,00 Euro VAT included (Sunday 26 June to Sunday 3 July or Wednesday 28 June to Wednesday 6 July: arrival and departure days).