IALM intersocietal symposium
P5 Medicine & Justice

VENICE | 21st - 24th June
2016
www.ialm2016venice.org

Scientific Programme
The Symposium

The 2016 Symposium of the International Academy of Legal Medicine (IALM) will discuss the present and future evolution of Bio-Medicolegal Sciences in the post-genomic framework of Personalized Medicine, in terms of Innovation, Unitariness and Evidence. The unitariness of the “Bio-Medicolegal Sciences”, historically founded on the accuracy and rigor of the methods of ascertainment and criteria of evaluation, should reestablish itself on molecular evidence, in the promotion of a Personalized Justice.

Ethos of the Symposium
The Syntagma “Innovation–Unitariness–Evidence” will constitute the main theme of the Symposium, to be articulated in Sessions on the subjects of Forensic Pathology and Anthropology on the Dead Person, Clinical Legal and Forensic Medicine on the Living Person, from interpersonal violence to personal injury and damage, malpractice and personal identification, in addition to Medicolegal Laboratory, such as Anthropology, Entomology, Genetics, Molecular Pathology and Toxicology. The Final Session will gather together the ideas and points of interest which emerge in the course of the Symposium, and will trace a vision of Transdisciplinary Innovation and Future Evidence in the framework of Personalized Justice. In addition to the Sessions dedicated to the main theme of the Symposium, the availability of facilities for the organization of Workshops and parallel joint/individual Sessions at the Lido di Venezia Congress Center (with a capacity ranging from 100 to >1000 persons) is vast.

Scientific Societies & Partners
EUROFORGEN-NoE – European Forensic Genetics Network of Excellence
nMAFS – New Mediterranean Academy of Forensic Sciences
ABIME – American Board of Independent Medical Examiners
AECVP – Association for the European Cardiovascular Pathology
APMLA – Asia-Pacific Medico-Legal Association
EACA – European Association of Clinical Anatomy
EAFE – European Association of Forensic Entomology
ECLM – European Council of Legal Medicine
EWDTS – The European Workplace Drug Testing Society
FASE – Forensic Anthropology Society of Europe
IAFS – International Association of Forensic Sciences
ICADTS – International Council on Alcohol, Drugs and Traffic Safety
ICC – International Criminal Court
ICRC – International Committee of the Red Cross
IOFOS – International Organization For Forensic Odonto-Stomatology
ISFRI – International Society of Forensic Radiology and Imaging
SoHT – Society of Hair Testing
WAML – World Association for Medical Law
In my role as President of the International Academy of Legal Medicine and on behalf of its Presidium, I am delighted to officially introduce the Scientific Programme of the 2016 IALM Symposium in Venice.

The Academy has a longstanding and venerable history in organizing Symposia dedicated to single issues of particular interest to the Bio-Medicolegal Sciences, commencing in 1980, until the most recent Symposium organized in Fribourg in 2012, dedicated to the subject of Interpersonal Violence in Social Proximity. A number of prestigious International Scientific Partners confirmed their active participation and patronage, namely the European Forensic Genetics Network of Excellence (EUROFORGEN-NoE), the New Mediterranean Academy of Forensic Sciences (nMAFS), the American Board of Independent Medical Examiners (ABIME), the Association for the European Cardiovascular Pathology (AECVP), the Asia–Pacific Medico–Legal Association (APMLA), the European Association of Clinical Anatomy (EACA), the European Association of Forensic Entomology (EAFE), the European Council of Legal Medicine (ECLM), the European Workplace Drug Testing Society (EWDTS), the Forensic Anthropology Society of Europe (FASE), the International Association of Forensic Sciences (IAFS), the International Council on Alcohol, Drugs and Traffic Safety (ICADTS), the International Criminal Court (ICC), the International Committee of the Red Cross (ICRC), the International Organization for Forensic Odonto-Stomatolgy (IOFOS), the International Society of Forensic Radiology and Imaging (ISFRI), the Society of Hair Testing (SoHT), the World Association for Medical Law (WAML). This event will take place in Venice, one of the World’s most beautiful cities.

The distinctive character and ethos of the Venice Symposium, diversely from the traditional structure of the previous IALM Symposia, resides in its commitment to the guiding principle of “Innovation–Unitariness–Evidence”, specifically attuned to the present and future evolution of the Bio-Medicolegal Sciences, and aimed at fostering a channel for the exchange of information in the form of invited lectures and round-table discussions. Indeed, the transformation inherent to the Post-Genomic revolution and the recent surge of Personalized Medicine poses a momentous epochal challenge to the Bio-Medicolegal Discipline, which should re-establish itself on molecular evidence in the promotion of a Personalized Justice.

Alongside the aforementioned, ample space will be given to the perennial and ever present issues and topics of the Bio-Medicolegal and Forensic Sciences, in the form of Parallel Sessions and Oral Presentations Sessions, thereby encouraging active discussions and eliciting valuable insights, while at the same time offering profitable up-to-date Educational contents and opportunities.

S. Davide Ferrara
IALM President
President of the Symposium
S. Davide Ferrara

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Maguelo, Giuseppe Molinari, Guido Pelletti, Salvatore Scrivano, Chiara Ungaro, Alessia Viero, 
Sindi Visentin
IALM Intersocietal Symposium

Tuesday, 21st of June, 2016

18.00

OPENING CEREMONY

Welcome by the President
S. D. FERRARA

Greetings from the Authorities

LECTIO MAGISTRALIS

Scientific Evidence and Proof. Towards a Personalized Justice
C. J. TARFUSSER

Sala Grande - Palazzo del Cinema

19.30

WELCOME COCKTAIL

Sala Mosaici - Palazzo del Casinò
Programme of the Symposium

Wednesday, 22nd of June, 2016
Sala Grande

P4 PERSONALIZED MEDICINE
Scientific-Technological Innovation and Epistemological Perspectives

Co-Chairmanship: A. CARRACEDO – S. CORDNER – D. PRIMORAC

8.30
Opening Lecture
The Origin of Personalized Medicine and the Systems Biology Revolution
R. RIZZUTO

Lectures
- Metabolomics and Molecular Imaging in the Post-Genomic Era
  T. ILLIG
- Epistemological and Ethical Implications of the P4 Revolution
  G. ZACCARIA

Open Discussion

COFFEE BREAK

INNOVATION, UNITARINESS AND EVIDENCE
Bio-Medicolegal and Criminological Sciences


11.00
Lectures
- Bio-Medicolegal Sciences
  S. D. FERRARA
- Criminological Sciences
  K. KIEHL
- From Scientific Evidence to Scientific Proof
  G. FORTI

Guided and Open Discussion

LUNCH

12.30
IALM Intersocietal Symposium

INNOVATION, UNITARINESS AND EVIDENCE
Forensic Pathology and Anthropology

DEAD PERSON

Co-Chairmanship: R. CECCHI - P. MANGIN - M. TIDBALL-BINZ

Lectures
- Forensic Pathology. Historical Roots and Modern Evolution
  S. POLLAK
- New Molecular and Imaging Innovations in Forensic Pathology
  T. KONDO
- Current Practice of Forensic Anthropology on Dead Bodies
  M. VERHOF
- Future Innovation of Post-mortem Anthropology
  C. CATTANEO
- The Impact of Innovation on Future Evidence at Trial
  K. CUNNINGHAM

Guided and Open Discussion

COFFEE BREAK

Co-Chairmanship: P. BEH - M. K. GULMEN - F. INTRONA

15.50
Groundbreaking Oral Communications

GOP-1 A comparison between four different methods of sampling GSR from gunshot wounds on skin and bone. Different applicability and reliability
A. AMADASI

GOP-2 Experimental staining in the barrel (part I). The positioning of the pistol
K. BAUER

GOP-3 Secondary brain ischemic injury from platelet aggregation as marker of chronology of brain injury. Experimental-casuistic study with IHC
R. CECCHI

M. C. SERRA

GOP-5 Body length estimation during the post-mortem interval. A preliminary study
D. FERORELLI

GOP-6 Time course analysis of five cytokines of incised wound in skeletal muscle for wound age estimation
M. GABALLAH

GOP-7 The analysis of thermally altered human remains. New insights and possibilities
T. KRAP

GOP-8 Feasibility study of the effective utilization of image features from X-ray computed tomography imaging for personal identification in forensic cases
Y. MATSUNOBU

GOP-9 Post-mortem muscle protein degradation as a tool for PMI delimitation
S. PITTNER

GOP-10 Post-mortem diagnosis of myocardial ischemia. A feasibility study on the application of LA-ICP MS, with multiplex quantitative imaging
S. SABATASSO

15.30
COFFEE BREAK

17.30
Closure
Thursday, 23rd of June, 2016

Sala Grande

INNOVATION, UNITARINESS AND EVIDENCE
Clinical Legal and Forensic Medicine

LIVING PERSON
Violence – Personal Injury and Damage – Malpractice – Personal Identification

Co-Chairmanship: T. FRACASSO – A. KUMAR – D. WELLS

Opening Lecture
Forensic Examination of the Living. From Violence to Injury and Damage. D. N. VIEIRA

Lectures

VIOLENCE – CRIMINOGENESIS AND PERSONAL INJURY
- OMICS and Functional Imaging for Predicting Violence P. PIETRINI
- Current Evidence in Personal Injury and Torture Medicine M. LORENTE
- Current and Future Evidence in Personal Injury Ascertainment under Criminal Law R. DETTMeyer

Groundbreaking Oral Communications

GOP-11  Sexual and physical victimization in Spanish Prisons. Mental illness as an associated risk factor F. CARAVACA SÁNCHEZ

GOP-12  Disclosure of sexual violence. Speaking about the unspeakable J. COHEN

GOP-13  Low-threshold clinical forensic examinations in Austria I. KLASINC

GOP-14  Torture. Survival and death H. VOGEL

Open Discussion

COFFEE BREAK

Co-Chairmanship: M. BAMOUSa – M. ROTHSCHILD – D. SHOKRY

Lectures

PERSONAL INJURY AND DAMAGE EVALUATION UNDER CIVIL LAW
- Personal Damage Ascertainment M. RANAVAYA
- Detection of Malingering in Psychic Damage Ascertainment G. SARTORI
- Current and Future Evidence in Personal Damage Evaluation G. MENDELSON

Groundbreaking Oral Communications

GOP-15  Objective assessment on balance dysfunction induced by vestibular injury or lower limb injury L. FAN

GOP-16  The evaluation of TMJ post-traumatic personal damage. Critical analysis C. FIGUEIREDO

GOP-17  Quick on the trigger. A fast, whole body, 3D surface documentation for medico-legal investigations S. KOTTNER

Open Discussion
IALM Intersocietal Symposium

Co-Chairmanship: E. KELLER - M. MONTISCI - M. VALI

14.00

Lectures

MALPRACTICE AND MEDICAL LIABILITY. INJURY AND DAMAGE
- International Juridical Overview
  G. COMANDÈ
- New Methods of Ascertainment in Medical Malpractice
  T. BAJANOWSKI
- Current and Future Evidence in Medical Malpractice
  P. VANEZIS

Groundbreaking Oral Communications

GOP-18 The notes are typical doctors’ notes, not particularly easy to interpret. An argument for video-recording of Medical Panel decisions?
  C. NEWLANDS

GOP-19 A case of severe burns during magnetic resonance imaging
  G. PATRU

Open Discussion

15.30

COFFEE BREAK

16.00

Co-Chairmanship: R. H. A. DA SILVA - V. PINCHI - E. VILLANUEVA

Lectures

PERSONAL IDENTIFICATION AND AGE ESTIMATION
- Historical Routes and Current Practice for Personal Identification
  E. CUNHA
- Radiodiagnostic and Molecular Innovation in Personal Identification
  S. GRABHERR
- Future Trends in Molecular Age Estimation
  M. CLEMENTI
- Current and Future Evidence in Personal Identification and Age Estimation
  R. CAMERIERE

Groundbreaking Oral Communications

GOP-20 Age estimation procedure based on the 3D CBCT study of the dental pulp volume in adults
  C. BALDINOTTI

GOP-21 3D reconstruction of teeth for estimating chronological age in children aged 5 - 18 years
  T. DOSTALOVA

GOP-22 Do cervical vertebrae add significant information to hand bones in forensic age estimation?
  B. GELBRICH

GOP-23 Are second premolars relevant in forensic age estimation?
  G. GELBRICH

GOP-24 Age assessment and gender identification using magnetic resonance imaging of the knee
  O. EL-SERAFY

Open Discussion

18.00

Closure
Friday, 24th of June, 2016

**Sala Grande**

Co-Chairmanship: **S. GRABHERR – T. ISHIKAWA**

9.00 Opening Lecture  
History and Current State of Forensic Imaging  
- Advances in Post-Mortem Forensic Imaging  
- Advances in Clinical Forensic Imaging  
- Future Evidence in Forensic Imaging  
Lectures  
Open Discussion

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**Sala Casinò**

Co-Chairmanship: **T. KELLER – A. SALOMONE**

9.00 Opening Lecture  
Post-Modern Medicolegal and Forensic Toxicology  
- From Drug Identification to Systems Toxicology  
- Single hair analysis. Monitoring Concept for P4 Implementation  
- Metabolomics and Omics-related Sciences in Forensic Toxicology  
Lectures  
Open Discussion

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**Sala delle Feste**

Co-Chairmanship: **P. GILL – B. LUDES**

9.00 Opening Lecture  
From Hemogenetics to Forensic Genomics  
- New Trends in Phenotype Prediction  
- Populations Genomics. Future Forensic Perspectives  
- Future Evidence in Forensic Genomics  
Lectures  
Open Discussion

11.00 COFFEE BREAK
IALM Intersocietal Symposium

INNOVATION, UNITARINESS AND EVIDENCE
Forensic Imaging

Sala Grande
Co-Chairmanship: G. CECHETTO - G. RUTTY

11.30
Groundbreaking Oral Communications

**GOP-25** Establishment of reference values for density measurement in post-mortem computed tomography (PMCT) and multiphase PMCT-Angiography (MPMCTA)

**GOP-26** Post-mortem sedimentation versus vital pulmonary embolism in post-mortem computed tomography

**GOP-27** Detection of pulmonary fat embolism in cases with post-mortem CT angiography (PMCTA)

**GOP-28** Forensic pathology in modern perinatal medicine

**GOP-29** The influence of scanner type and acquisition parameters on bone length measurements in computed tomography

**GOP-30** Forensic 3D documentation of the injuries

**GOP-31** Iatrogenic cardiac shunts. Findings in PMCT and MPMCTA

Open Discussion

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INNOVATION, UNITARINESS AND EVIDENCE
Forensic Toxicology

Sala Casinò
Co-Chairmanship: R. RAUDYS – K. STEWART

11.30
Groundbreaking Oral Communications

**GOP-32** EWDTS guidelines. Highlights of the update 2015

**GOP-33** Driving under the influence of drugs. Epidemiology, clinical impairment and latest legislative per se approach in Ireland and Europe

**GOP-34** Genotyping CYP2D6 in post-mortem tramadol cases. A case report

**GOP-35** Simulated motorcycle riding performance under low-dose alcohol in light drinkers. A pilot study

**GOP-36** LC-MS/MS determination of Topiramate in nails and hair. Comparison of incorporation into these keratinized matrices

**GOP-37** Driving under the influence of drugs. Scientific technical evaluation and selection of preliminary drug testing devices currently available in Europe

**GOP-38** A comparison between hair EtG, hair FAEE, serum CDT in detecting patterns alcohol consumption in child protection cases

Open Discussion
INNOVATION, UNITARINESS AND EVIDENCE
Forensic Genetics and Genomics

Sala delle Feste
Co-Chairmanship: N. CHUNG - A. LUNA

Groundbreaking Oral Communications

GOP-39 Digital resolution of forensic biological mixtures by separation of 100% pure cells from each contributor for precise genetic analysis
F. FONTANA

GOP-40 Development of methylation marker sets for forensic age estimation using Sequenom Epityper and analysis of public methylation data
A. FREIRE-ARADAS

GOP-41 HLA-DRB1 and DQB1 frequencies in United Arab Emirates Population
R. GOMAA

GOP-42 Association of a body fluid with a DNA profile by targeted RNA/DNA deep sequencing
S. INGOLD

GOP-43 Relevance of molecular testing in patients with a family history of sudden death
S. KAUFERSTEIN

GOP-44 A comparative study between muscle, cartilage, bone and swab from inside the urinary bladder for DNA typing in disaster victim identification
S. T. G. FERREIRA

GOP-45 The impact of variants in arrhythmia associated genes on unexplained drownings
I. TZIMAS

LUNCH

P5 PERSONALIZED JUSTICE
Transdisciplinary Innovation and Future Evidence

Sala Grande
Co-Chairmanship: D. CUSACK - N. IKEDA - S. POLLAK

Reports of Previous Sessions

I SESSION Scientific-Technological Innovation and Epistemological Perspectives
P. SCHNEIDER

II SESSION Bio-Medicolegal and Criminological Sciences
G. VIEL

III-IV SESSION Forensic Pathology and Anthropology
K. CUNNINGHAM

V-VI-VII SESSION Violence – Personal Injury – Medical Malpractice
M. RANAVAYA

VIII SESSION Personal Identification – Age Estimation
D. CUSACK

IX-X SESSION Forensic Genetics and Genomics
M. KAYSER

XI-XII SESSION Forensic Toxicology
K. STEWART

XIII-XIV SESSION Forensic Imaging
G. RUTTY

Guided and Open Discussion

COFFEE BREAK

Co-Chairmanship: S.D. FERRARA, G. FORTI, C.J. TARFUSSER

16.00 Round-Table and Open Discussion
A. CARRACEDO, K. CUNNINGHAM, T. KONDO, S. POLLAK, M. ROTHSCCHILD

18.00 Conclusions
Satellite and Parallel Scientific Meetings

Satellite Meetings
Programmes

Parallel Meetings
Programmes
Thursday, 23rd of June, 2016
Sala delle Feste

EUROFORGEN
Network of Excellence

INTERNATIONAL DISSEMINATION CONFERENCE
Forensic DNA analysis in the light of the new security needs

9.00 Achievements of the European Forensic Genetics Network of Excellence
P. SCHNEIDER

SESSION 1
From Crime Scene to Court Room

9.30 Evidence challenges and advanced interpretation methods
The interpretation debate. Miscarriages of justice
- Challenges in Forensic Genetics
  J. BUTLER
- The impact of the Innocence Project on forensic science policy and practice
  S. CHU
- The interpretation debate. How misleading is DNA evidence?
  P. GILL

11.00 COFFEE BREAK

SESSION 2
From Genotype to Phenotype

11.30 The next step in forensic genetic intelligence
State-of-the-art and future directions
- Genetics of human visible traits
  T. SPECTOR
- Recent progress in predictive DNA analysis
  W. BRANICKI
- New technologies and approaches in forensic genetics. Application to real cases
  C. PHILLIPS

13.00 LUNCH

SESSION 3
Science in Society

14.00 Ethical and legal aspects, and the societal dimension of forensic genetics
Security issues in Europe from a DNA perspective
- Ethical aspects of the evaluation of the evidence and communication
  E. MURPHY
- Ethical and social challenges of transnational exchange of DNA data in the EU
  H. MACHADO
- Ensuring the social life of innovations in forensic genetics
  M. WIENROTH

15.30 COFFEE BREAK
Satellite Scientific Meetings

- Contribution of DNA typing to the resolution of crimes against humanity  
  L. PRIETO
- European law regulating the forensic application of DNA testing and its use for national databases  
  K. REED

ROUND TABLE

17.00 Current challenges in Ethics & Legal & Social aspects in different European countries  
  R. WILLIAMS

18.00 Closure

TARGET AUDIENCE

We would like to invite you to take part in this meeting, no matter your area of expertise. A wide range of experts are involved in the whole process from crime scene to court room, police, medical examiners, forensic scientists, legal system experts, the judiciary, policy makers, and others.

This interdisciplinary meeting is a good opportunity to get an update on the state-of-the-art in the rapidly evolving field of forensic genetics, and to be in touch with other experts from science, police and the judiciary to establish new and more powerful collaborations that will improve the administration of justice.

Participation includes access to all sessions of the IALM Intersocietal Meeting, including a session on Forensic Genetics and Genomics on Friday, June 24th, including A. Carracedo, M. Kayser, W. Parson and P. Schneider as speakers, and with short presentations submitted by the participants.
Thursday, 23rd of June, 2016
Sala Pasinetti

7th nMAFS INTERNATIONAL MEETING
Mediterranean Countries and the Refugee Crisis. Emerging Issues and Potential Solutions

Chairpersons: S. GHALEB – N. UKA

9.00
Humanitarian Actions for confronting the Refugee Crisis. The contribution of International Forensic Societies and Academies
M. TIDBALL-BINZ

9.20
The Role of Forensic Anthropology and Pathology
C. CATTANEO

9.40
Medical and Humanitarian Problems of Refugees in Turkey. Consequences for the Mediterranean Countries
M. K. GULMEN

10.00
Social and Forensic Challenges. The Issue of Displaced Persons (DPs) in the Middle East
A. SAMARJI

10.20
Guided and Open Discussion

11.00
COFFEE BREAK

11.30
Oral Communications
FIRST AUTHOR

OP-124 Challenges in the postmortem examination of the victims of the recent Mediterranean shipwreck of April 18 2015
C. CATTANEO

OP-125 Medico-legal protocol for the ascertainment and evaluation of adult asylum seekers
S. VISENTIN

OP-126 Discriminant function analysis of mandibular dimensions for sex estimation in Turkish Adult Population
O. BULUT

OP-127 Prevalence and predictors of physical victimization among incarcerated men and women in Spanish prisons
F. CARAVACA SÁNCHEZ

OP-128 Significance of the victim/assailant relationship in sexual assault examinations
M. ELFAWAL

OP-129 Moral development, attachment to father and bullying behaviors among high school students
S. YILDIZ İNANICI

OP-130 Harassment against females. Facts from Egypt
A. ABDELFATTAAH

OP-131 Muslim religious officials’ knowledge. Attitude and behaviour towards forensic autopsy
A. AVŞAR

OP-132 Retrospective study concerning infectious agents identified during examinations of victims of sexual assault
J. HIQUET

13.00
LUNCH
Satellite Scientific Meetings

Chairpersons: M. CASTELLANO, D. WELLS

14.00
Abuses Among Refugees. The Experience of some Arab Countries
D. SHOKRY

14.20
Sexual Abuses Faced During the Arab Spring
A. CHADLY

14.40
Drug Trafficking and Refugees
N. DAGLIOGLU

15.00
Oral Communications

OP-133  Evaluation of 1007 sexual crime cases, in terms of victim and perpetrator ages and related parameters; a pilot study
H. KELES

15.30
COFFEE BREAK

16.00
Oral Communications

OP-134  Female genital mutilations. A retrospective observational study in the sexual and domestic assault crisis center of Milan
A. KUSTERMANN

OP-135  Clinical profile and outcome of poisoned pediatric patients admitted to Poison Control Center, Ain Shams University Hospitals during the Year 2012
S. SHALABY

OP-136  Use of an integrated forensic workspace to assist during the identification of victims in disasters. The Mobile Forensic Workspace
A. VALENZUELA-GARACH

OP-137  The role of forensic anthropology in the identification of communist regime victims in Albania
B. CIPI

OP-138  Mental disorders and insanity defense. Different legal ends of two murderer mothers diagnosed with major depression disorder
L. KOOHESTANI

OP-139  Assessing chronological age of unidentified migrants. A legal protocol operative in Turin, Italy
F. LUPARIELLO

OP-140  A comparison of attachment styles and identity styles in people with gender identity disorder in Southwest of Iran
M. ZARENEZHAD

OP-141  Tunisian legislation concerning child protection in medical practice
A. MOSBAHI

OP-142  Unexpected fatal outcome of an undiagnosed ultra-rapid growing neck mass in a nulliparous young woman
M. FEREIDOONI

OP-143  Compliant about dentists and experimental dentist’s malpractice referred to the Fars Province Legal Medicine Organization and Medical Council during 2006–2011
S. GHOLAMZADEH

OP-144  Evaluation of the frequency, clinical signs and prognosis of drug abuse in poisoning cases referred to Shiraz Shoushtari Hospital since September 2008
F. GOUDARZI

OP-145  The refusal of patient in medical examinations and/or therapy. Ethical and deontological implications
E. KANAKI

18.00
Guided and Open Discussion

18.30
Closure
Thursday, 23rd of June, 2016
Sala Casinò

ITALIAN SATELLITE MEETING
IALM Working Group
on Personal Injury and Damage

From Personal Injury to Impairment and Compensation.
The Methodology of Ascertainment and Criteria of Damage Evaluation

Chairpersons: R. DOMENICI - G. A. NORELLI

8.45  Introduction  S. D. FERRARA
9.00  International juridical overview  G. COMANDÈ
9.30  From personal injury to impairment. An holistic systematic approach  G. A. NORELLI
9.50  The detection of malingering. Malingering in itself or evidence?  G. SARTORI
10.10 The “Padova Charter” on the methods of ascertainment of personal injury and damage  R. DOMENICI
10.30 The medico-legal Barèmes  R. ZOIA
10.50  COFFEE BREAK

Chairpersons: P. VANEZIS - Y. VERMYLEN

11.10 From impairment to personal damage. Criteria of evaluation  G. MENDELSON     F. CORTE-REAL
                                              Australia     Portugal
Y. VERMYLEN                                    S. MARTIN DE LAS HERAS
                                              Belgium     Spain
E. BACCINO                                        P. VANEZIS
                                              France     UK
E. KELLER                                                                 
                                              Hungary
N. M. DI LUCA  F. CORTÉ-REAL                      M. RANAVAYA
                                              Italy     USA
13.00  LUNCH

Chairpersons: F. AVATO - C. BUCCELLI

14.00 A comparison of International Barèmes  C. BUCCELLI
14.20 International overview of dental damage compensation  V. PINCHI
14.40 Harmonization of evaluation criteria  M. RANAVAYA
15.00 “Pain and suffering” in personal injury and damage ascertainment  E. PEDOJA
15.20 “Pain and suffering”. Towards an evaluative harmonization  E. RONCHI
15.40  COFFEE BREAK

Chairpersons: N. M. DI LUCA - R. ZOIA

17.30 Discussion

18.00 Epicrisis and Conclusions

18.30 Closure
Parallel Scientific Sessions

Wednesday, 22nd of June, 2016
Sala Casinò

Humanitarian Forensic Action. A New Field in Forensic Science

EDUCATIONAL OBJECTIVES
After attending this workshop, attendees will become familiar with the emerging field of forensic science applied to humanitarian forensic action worldwide, including relevant normative and practical considerations for investigations applied to the recovery, documentation, management and identification of the dead from armed conflicts and catastrophes.

IMPACT ON THE FORENSIC SCIENCE COMMUNITY AND/OR HUMANITY
This event will impact the forensic community by providing an updated review of current knowledge and practice in humanitarian forensic action worldwide, including trends and opportunities for forensic practitioners.

PROGRAM DESCRIPTION
A multidisciplinary panel of international experts will share their recommendations, experiences, and lessons learned in the practice of humanitarian forensic action. Topics for discussion will range from applicable legal frameworks; the integration of various forensic disciplines for the search, recovery, analysis, identification and management of the dead in humanitarian operations, to the proper disposal of the dead and addressing the needs of the bereaved. Case studies will be provided exploring challenges and opportunities in humanitarian forensic action.

Chairpersons: M. TIDBALL-BINZ - D. N. VIEIRA

13.30 Welcome
14.00 Humanitarian forensic action. A new field of application of forensic science
14.30 Humanitarian forensic action. Background, principles and recommendations from the International Committee of the Red Cross
15.00 Twelve years on. Lessons learned in humanitarian forensic action
15.30 COFFEE BREAK
16.00 Forensic humanitarian action in practice. The experience of Ukraine and Colombia
16.30 Forensic humanitarian action in practice. Its role in supporting forensic capacity building
17.00 Forensic humanitarian action. Considerations for future
### Post mortem computed tomography & other imaging methods

**Chairpersons:** C. G. BUSK - K. WOZNIAK

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>13.30</td>
<td>Current status of computed tomography in forensic medicine</td>
<td>C. O’DONNELL</td>
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<tr>
<td>14.00</td>
<td>Post mortem computed angiography</td>
<td>S. GRABHERR</td>
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<td>14.20</td>
<td>Post mortem computed tomography used for anthropology</td>
<td>A. BROUGH</td>
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<tr>
<td>14.40</td>
<td>Postmortem microcomputed tomography (micro-CT) of small fetuses and hearts</td>
<td>C. M. LOMBARDI</td>
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<td>15.00</td>
<td>Application of PMCT for injury estimation and DVI in mass fatalities</td>
<td>K. WOZNIAK</td>
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<td><strong>COFFEE BREAK</strong></td>
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### Other imaging methods

**Chairpersons:** P. M. LETH - M. THALI

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>15.50</td>
<td>Post mortem diffusion tensor magnetic imaging</td>
<td>W. HAAKMA</td>
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<tr>
<td>16.10</td>
<td>The use of magnetic resonance imaging in forensic medicine</td>
<td>K. YEN</td>
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<tr>
<td>16.30</td>
<td>Photogrammetry-based optical surface scanning</td>
<td>S. KOTTNER</td>
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<tr>
<td>16.50</td>
<td>Paediatric post mortem imaging</td>
<td>R. VAN RIJN</td>
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<tr>
<td>17.10</td>
<td>Optical coherence tomography in characterizing atheromatous plaques in coronary arteries by comparison with histology</td>
<td>C. G. BUSK</td>
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</tbody>
</table>
The Parallel Session of the European Association of Clinical Anatomy will be focused on the specific definition of field and methodologies of “Forensic Clinical Anatomy” as new field of research and professional activity between Clinical Anatomy and Legal Medicine. In a general way, Forensic Clinical Anatomy may be defined as the practical application of knowledge and methods of clinical anatomy to the ascertainment and evaluation of medico-legal problems. Forensic Clinical Anatomy specifically addresses the role of anatomical variability in medical responsibility, in terms of reconstruction of physiopathological pathway, identification-evaluation of errors, discussion of causal value and damage estimation. The lectures in the present session will specifically consider the anatomical bases of iatrogenic injuries in various systems, trying to give further instruments for ascertainment and evaluation in the medico-legal context.

Chairpersons: R. DE CARO - B. GRIGNON

13.30 Forensic Clinical Anatomy. Definition of fields and methodologies
13.40 Anatomical variability and medical responsibility: implications in the methods of ascertainment and criteria of evaluation
14.00 Peritoneal bands. Embryological bases, surgical implications and medical liability
14.25 Anatomical bases of iatrogenic injuries in hip surgery
14.50 Anatomical bases of iatrogenic injuries of nerves of upper and lower limbs
15.15 Forensic implications of anatomical variability of the brain vascularisation
15.35 COFFEE BREAK
15.50 Imaging, anatomy, teaching and forensics
16.15 Diffusion tensor imaging of the central nervous system: addressing anatomo-functional variability of brain connectivity
16.35 Post mortem analysis of single organs through computed tomography
16.55 Surgical training and development of innovative surgical approaches in the anatomical room. The experience of the Body Donation Program of the University of Padua
17.15 Conclusions
The Parallel Session of the European Association of Clinical Anatomy will be focused on the specific definition of field and methodologies of "Forensic Clinical Anatomy" as a new field of research and professional activity between Clinical Anatomy and Legal Medicine. In a general way, Forensic Clinical Anatomy may be defined as the practical application of knowledge and methods of clinical anatomy to the ascertainment and evaluation of medico-legal problems. Forensic Clinical Anatomy specifically addresses the role of anatomical variability in medical responsibility, in terms of reconstruction of physiopathological pathways, identification and evaluation of errors, discussion of causal value, and damage estimation. The lectures in the present session will specifically consider the anatomical bases of iatrogenic injuries in various systems, trying to give further instruments for ascertainment and evaluation in the medico-legal context.

**LEARNING OBJECTIVES**

At the conclusion of this knowledge-based session, participants will be able to:

1. Describe the impact of medicines which impair driving on traffic safety;
2. Understand prescribing and dispensing guidelines for medicines and driving fitness;
3. Explain the categorisation system for medicines which affect fitness to drive;
4. Understand risk communication outcomes and perspectives of patients who drive;
5. Explain consequences of new practice guidelines and new insights for legal medicine.

**Chairperson:** H. DE GIER

**13.30** Medicines and driving. An Introduction  
H. DE GIER

**14.00** Categorization for medicines and driving fitness.  
Risk communication and patient perspectives  
H. DE GIER

**14.30** Prescribing and dispensing guidelines  
C. MERCIER-GUYON

**15.00** Using diazepam-equivalents in blood to assess the impairment after using two or more benzodiazepines  
V. VINDENES

**15.30** COFFEE BREAK

**16.00** Determining thresholds for driver fitness in long-term users of ICADTS category III medication  
N. VAN DER SLUISZEN

**16.30** Consequences for legal medicine  
R. SNENGH

**17.00** Discussion Session – Examples from the audience  
A. AMAGLIANI
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13.30</td>
<td>Facing challenges in death investigation for the forensic entomologist and pathologist</td>
<td>C. P. CAMPOBASSO</td>
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<tr>
<td>13.50</td>
<td>Fixation and preparation techniques for morphological and genetical analyses</td>
<td>S. VANIN</td>
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<tr>
<td>14.10</td>
<td>Drug detection from insects: Italian cases</td>
<td>V. BUGELLI</td>
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<td>14.30</td>
<td>Geographical and environmental factor affecting body colonization</td>
<td>J. AMENDT</td>
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<td>14.50</td>
<td>Temperature registration and recording</td>
<td>D. CHARABIDZE</td>
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<tr>
<td>15.10</td>
<td>Discussion</td>
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<td>15.30</td>
<td><strong>COFFEE BREAK</strong></td>
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<tr>
<td>16.00</td>
<td>Age estimation. ADD, ADH and developmental graphs</td>
<td>L. BOURGUIGNON</td>
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<tr>
<td>16.20</td>
<td>Informatics tools for age estimation. From excel to online software</td>
<td>D. CHARABIDZE</td>
</tr>
<tr>
<td>16.40</td>
<td>Discussion on cases</td>
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<tr>
<td>17.00</td>
<td>Closure</td>
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</table>
Thursday, 23\textsuperscript{rd} of June, 2016
Sala Mangano

IOFOS
International Organization for Forensic Odonto-Stomatology

SESSION 1

Chairperson: V. PINCHI - T. SOLHEIM

9.00 The role of the expert witness in different legal systems. Civil law vs common law
Y. VERMYLEN

9.20 Forensic odontologist in court. Qualification, standards and guidelines underlying the expertise
V. PINCHI

9.40 Oral Communications
FIRST AUTHOR

OP-146 Procedures of expertise in France. Principles and methods
C. LABORIER

OP-147 Standards and guidelines. The changing face of forensic odontology
K. ASCHHEIM

C. PAPADOPOULOS

OP-149 Odontosearch 3.0. An improved tool to aid in human identification by comparative dental analysis
K. ASCHHEIM

10.40 Discussion time

11.00 COFFEE BREAK

SESSION 2

Chairpersons: R. H. A. DA SILVA - R. LESSIG

11.30 Evidence in mass-grave exhumations, dental anthropology in court
H. BRKIC

11.50 Oral Communications
FIRST AUTHOR

OP-150 Odontologic identification – Revisited
T. SOLHEIM

OP-151 Accuracy in post-mortem and ante-mortem dental radiographic matching
J. TAYLOR

OP-152 Gender determination based on intraoral photographs. A preliminary study
A. MITSEA

12.30 Discussion time

13.00 LUNCH
Parallel Scientific Sessions

SESSION 3
Chairpersons: A. MIDDLETON - P. THEVISSEN

14.00
DVI Interpol procedures and recommendations: operational and identification difficulties in implementing processes in mass disasters and single corpse cases
R. LESSIG

14.20
Oral Communications

OP–153 Atypical forensic dental identification
S. RICHER

OP–154 Forensic odontological identification of victims of the aircraft collision at Zell Am See 2007
P. SCHULLER-GOTZBURG

OP–155 Forensic odontologists on disaster victim identification teams
G. DROGOU

J. M. HUTT

15.20
Discussion time

15.30
COFFEE BREAK

SESSION 4
Chairpersons: H. BRKIC - S. MARTIN DE LAS HERAS

16.00
Over or under the age threshold? Dental age estimation and legal requirements in criminal cases and administrative procedures
P. THEVISSEN

16.20
Oral Communications

OP–157 Analysis and comparison of the EU and EU member Countries’ laws and regulations related to age estimation in asylum procedures
F. PRADELLA

OP–158 Advantages of a European network for the study and application of medico-legal age estimation
C. PEREIRA

16.50
Discussion time

SESSION 5
Chairpersons: J. ROSIE - C. PEREIRA

17.10
Evidence, bias and expert witness in bite mark
H. BERNITZ

17.30
Oral Communications

OP–159 Bite marks from a judge’s unscientific perspective
H. PITLUCK

OP–160 Medical negligence and risk. Limits of criminal law
A. CORTE-REAL

OP–161 Why a forensic odontologist in dental trauma cases?
J. WEERATNA

18.30
Closure
Thursday, 23rd of June, 2016
Sala Martinelli

ICADTS
International Council on Alcohol, Drugs and Traffic Safety

Psychoactive substance use in traffic

Chairpersons: S. HOUWING – K. KUYPERS

9.00 Introduction and overview  
K. STEWART

9.20 Impact of state regulations on alcohol consumption in traffic and on drug pattern among drug users in Georgia  
M. GOGIA

9.40 Prevalence of alcohol and other psychoactive substances in drivers: an issue for traffic safety in Lithuania in the EU content  
M. CAPLINSKIENE

10.00 Associations between sensation seeking, alcohol and drug use among drivers in normal traffic  
S. T. BOGSTRAND

10.20 The role of illicit, licit, and designer drugs in the traffic in Hungary  
T. VARGA, A. R. TÓTH
E. HIDVÉGI, L. INSTITORIS

10.40 COFFEE BREAK

11.10 Development of drink driving recidivism in Germany since the mid 1980s  
S. KLIPP

11.30 Towards consensus in the use of neurocognitive tests for measuring drug induced driving impairment  
S. JONGEN

11.50 Combating Drink driving in Russia. Results from a Russian Driving School program  
M. PLOTNIKOVA

12.10 Educational program on drink driving for novice drivers  
J. VELDSTRA

12.30 Alcohol interlock programs in Europe  
I. DAOUĐ

12.50 Discussion  
K. KUYPERS
Parallel Scientific Sessions

Thursday, 23rd of June, 2016
Sala Rossi Drago

AECVP
Association for the European Cardiovascular Pathology

Autopsy Pathology of Sudden Cardiac Death – SCD

Chairpersons: C. BASSO – R. H. DE GOUVEIA

9.00  Coronary artery disease                  A. VAN DER WAL
9.20  Cardiomyopathies                        M. SHEPPARD
9.40  Valve and congenital heart diseases     G. THIENE
10.00 Molecular autopsy and SCD sine materia J. BANNER
10.20 Mechanical SCD                           G. D'AMATI
10.40 Discussion                             
11.00 COFFEE BREAK

11.30 SCD after surgery and interventional procedures J. LUCENA
11.50 SCD and forensic implications           K. MICHAUD
12.10 Discussion                             
12.30 How to dissect the heart in SCD. Live video demonstration C. BASSO
Thursday, 23rd of June, 2016
Sala Griffith

ABIME
American Board of Independent Medical Examiners

Medico-legal report writing and court testimony skills

14.00
This 4 hour-long Training Course is specifically designed for Medical Doctors/Surgeons of all specialties and others to learn how to interact with Lawyers, Courts, write Medicolegal Reports and how to start, build and successfully run an Independent Medical Examiner/Export Witness Practice either part-time or full time.

18.00
Closure

Friday, 24th of June, 2016
Sala Mangano

FASE
Forensic Anthropology Society of Europe

The role of anthropology in personal identification
Anthropology as a “primary” method

This meeting brings together forensic practitioners, researchers and representatives from international organisations, such as Interpol and ICRC, who are involved in the identification of human cadavers and skeletal remains. In light of the recent humanitarian emergency of mass migrant deaths in the Mediterranean, this session focuses on how forensic anthropology can contribute to the identification process, whether and how skeletal features can be used for positive identification, and what steps need to be taken (statistical, administrative, educational, etc.) in order include skeletal findings in the “identification tool box”. The goal of the session is to formulate a consensus statement on the use of anthropological findings for personal identification when traditional primary identifiers are not available.

9.00
Introduction

C. CATTANO
E. CUNHA

10.00
Lecture
The statistics of identification

F. TARONI

11.30
Different perspectives

Y. SCHULIAR

12.30
Round Table

E. BACCINO, M. TIDBALL-BINZ

COFFEE BREAK
Workshops

Programmes

ABIME
American Board of Independent Medical Examiners
TRAINING PROGRAM

APMLA
Anti-Plagiarism Medical Legal Authorities

IAFS
International Association of Forensic Sciences

AECVP
Association for the European Cardiovascular Pathology

ICRC
International Committee of the Red Cross

IOFOS
International Organization for Oral and Maxillofacial Surgery

SOHT
Society of Hair Testing

EWDTS
European Wireless Drug Testing Society
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<th>Time</th>
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<tr>
<td>8.30</td>
<td>Registration</td>
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<tr>
<td>9.00</td>
<td>Key Concepts in AMA Guides Chapters 1 and 2. Review the Methodology, appropriate use and practical application of the AMA Guides, 6th Edition</td>
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<td>10.30</td>
<td><strong>COFFEE BREAK</strong></td>
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<tr>
<td>11.00</td>
<td>Spine impairment Rating, Chapter 17. Methodology of Assessment and Impairment Rating with Case Presentations</td>
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<td>12.30</td>
<td><strong>LUNCH and Learn with Faculty</strong> Post session Evaluation – Brief quiz</td>
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<td>13.30</td>
<td>The Upper Limb &amp; Lower Limb Impairment Rating, Chapter 15-16 Methodology</td>
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<td>15.00</td>
<td>Head Injury &amp; Other Nervous System impairment rating using AMA Guides</td>
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<td>15.30</td>
<td>AMA Guides, 6th Edition and the Psychic impairment rating – Methodology</td>
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<tr>
<td>16.00</td>
<td>Case Studies and Adjourn</td>
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<tr>
<td>16.30</td>
<td>Closure</td>
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# Workshops

**Tuesday, 21st of June, 2016**  
*Sala Hoffmann*

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<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker/Details</th>
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<tr>
<td>8.30</td>
<td>Registration</td>
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<tr>
<td>9.00</td>
<td>Welcome</td>
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<tr>
<td>9.00</td>
<td>Overview of APMLA</td>
<td>M. S. MAHMOOD</td>
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<tr>
<td>9.10</td>
<td>Overview of IAFS</td>
<td>K. CUNNINGHAM</td>
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<tr>
<td>9.20</td>
<td>International Support during Kumamoto Earthquake Japan</td>
<td>A. MIYATA</td>
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<tr>
<td>9.30</td>
<td>DVI Response to the Earthquake in Haiti</td>
<td>K. CUNNINGHAM</td>
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<td>10.00</td>
<td>DVI for MH17 Airplane Crash in Ukraine</td>
<td>M. S. MAHMOOD</td>
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<td>10.30</td>
<td><strong>COFFEE BREAK</strong></td>
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<tr>
<td>10.45</td>
<td>Management of Forensic Data in Mass Disasters and Armed Conflict - Experiences of ICRC</td>
<td>O. FINEGAN</td>
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<tr>
<td>11.30</td>
<td>Military Airplane Crash in Delhi India</td>
<td>A. KUMAR</td>
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<td>12.00</td>
<td>Multiple fatality planning and response at the Ontario Forensic Pathology Service</td>
<td>K. GRUSPIER</td>
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<td>12.30</td>
<td><strong>LUNCH</strong></td>
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<td>13.30</td>
<td>Chairperson: K. GRUSPIER</td>
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<tr>
<td>13.30</td>
<td>Sewol Ferry Disaster DVI Operation</td>
<td>N. CHUNG</td>
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<tr>
<td>13.45</td>
<td>AIR ASIA QZ 8501 DVI OPERATION</td>
<td>E. UNTORO</td>
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<tr>
<td>14.20</td>
<td>Introduction of MIM Software</td>
<td>N. CHUNG</td>
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<td>15.00</td>
<td><strong>COFFEE BREAK</strong></td>
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<tr>
<td>15.15</td>
<td>Simulation Exercise with MIM for Venice Terrorist Attack Scenario</td>
<td>N. CHUNG, H. PARK, S. JANG, J. PARK</td>
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<tr>
<td>16.15</td>
<td>Discussion</td>
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<td>16.30</td>
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EDUCATIONAL OBJECTIVES
After attending this workshop, attendees will become familiar with normative and practical considerations for investigations applied to the recovery, documentation, management and identification of decedent migrants and the search for missing migrants.

IMPACT ON THE FORENSIC SCIENCE COMMUNITY AND/OR HUMANITY
This workshop will impact the forensic community by providing an updated review of current knowledge and practice in humanitarian forensic action applied to the management of decedent migrants and investigations into missing migrants.

PROGRAM DESCRIPTION
A multidisciplinary panel of international experts will share their recommendations, experiences, and lessons learned in the practice of humanitarian forensic action applied to the management and identification of decedent migrants. Topics for discussion will range from applicable legal frameworks; the integration of various forensic disciplines for the search, recovery, analysis, identification and management of the dead in humanitarian operations, to the proper disposal of the dead and addressing the needs of the bereaved. Case studies will be provided exploring challenges and opportunities in humanitarian forensic action on behalf of deceased migrants.

8.30 Welcome
9.00 The humanitarian tragedy of decedent migrants. The role of forensic service providers and related agencies D. N. VIEIRA
9.30 Humanitarian forensic action on behalf of decedent migrants. Principles and recommendations from the International Committee of the Red Cross M. TIDBALL-BINZ
10.00 An overview of the challenges and recommendations for the management and identification of decedent migrants in Mediterranean European countries. An overview C. CATTANEO
10.30 COFFEE BREAK
11.00 National situation: Spain J. L. PRIETO
11.20 National situation: France Y. SCHULIAR
11.40 National situation: Greece P. MINIATI
12.00 National situation: Italy C. CATTANEO
12.20 LUNCH
Workshops

13.20 National situation: Malaysia  M. S. MAHMOOD
13.40 National situation: Israel  C. KUGEL
14.00 Challenges and opportunities for managing forensic data relating to dead migrants  O. FINEGAN
14.30 Recommendations from the 2013 Conference in Milan and the 2015 Conference in Barcelona  J. L. PRIETO
15.00 Implementation of Recommendations  C. CATTANEO
15.30 Pannel discussion  J. L. PRIETO
16.30 Closure

KEYWORDS
Missing persons, human remains, armed conflict, catastrophes, migration.

TARGETED AUDIENCE
General forensic practitioners, Anthropology, Pathology/Biology, Criminalistics, humanitarian workers with background in biological sciences.

KNOWLEDGE LEVEL REQUIRED
Intermediate.

MATERIALS AND METHODS
The workshop will consist of lectures followed by Q&As with participants. The organizers (International Committee of the Red Cross) will distribute CDs with relevant reading material on the topics covered in the workshop.

EXPECTED HANDOUT LENGTH
170+ pages (on CD).
Immigration to, and asylum seeking in, an European country has never been such an important phenomenon as it is currently evident from the daily chronicles. However, often the asylum seekers’ age is unknown or questioned by the authorities. Therefore, age estimation examinations are requested to allow to provide the asylum seekers which are children in the host country the providences they have right to. The workshop will provide, in a first part, interactively practical information on the up to date formal (legal and ethical) and scientific requirements necessary to perform age estimation examinations. In a second part, a guided age estimation report writing will be performed.

Civil and criminal proceedings imply different duties of Forensic Odontologist who serves as Expert Witness in Court. Best practices in report writing and court testifying will be discussed through the presentation of practical cases of dentist’s liability. Presenters will role-play as Expert Witness of Plaintiff, Defendant and Court under the guidance of a lawyer. The workshop explores the importance of providing a sound, balanced opinion taking into account different demands and requirements placed upon applied forensic odontologists by the legal system when working as an expert witness in case of dental malpractice.

Closure
8.30 Registration
9.15 Welcome message
9.30 Interpretation of hair testing results. Single doses, overview and general guidelines
R. KRONSTRAND
10.00 Alcohol markers and effect of cosmetic treatments on alcohol markers in hair
M. YEGLES
10.30 Q&A

COFFEE BREAK

11.00 Utility and challenges of hair testing in abstinence control
R. AGIUS
11.30 Hair analysis in WDT
L. MORINI, A. SALOMONE
12.15 Q&A

LUNCH

13.30 Interpretation of hair analysis results in post-mortem cases
H. SACHS
14.00 Applications of Hair Analysis in Forensic Toxicology
C. JURADO
14.30 Q&A

COFFEE BREAK

15.00 Environmental exposure
B. APPENZELLER
15.30 Interpretation of hair testing in doping situations. Specific acceptance by sport authorities
P. KINTZ
16.00 Q&A, Discussion
16.30 Closure
Tuesday, 21st of June, 2016
Sala Rossi Drago

AECVP
Association for European Cardiovascular Pathology

FORENSIC CLINICO-PATHOLOGIC CASES OF COMPLICATIONS VS ERRORS IN INTERVENTIONAL CARDIOLOGY AND CARDIAC SURGERY

Chairpersons: A. ANGELINI - K. MICHAUD

11.00 Introduction
11.10 Contemporary cardiac surgery and interventional cardiology and the impact on forensic cardiovascular pathology
11.40 Forensic pathology. Error, complications and professional responsibility
12.10 Case 1

12.30 LUNCH

13.30 Case 2
13.50 Case 3
14.10 Case 4
14.30 Case 5
14.50 Case 6
Case 7
15.30 Closure

M. RUNE CHRISTENSEN, J. BANNER
H. H. DE BOER, A. VAN DER WAL
S. VADIVELU, M. SHEPPARD
R. EL MAZLOUM, C. BASSO
C. PONTINHA, R. H. DE GOUVEIA
M. LESTA, K. MICHAUD
Oral Presentations

Wednesday, 22nd of June, 2016
Sala Zorzi

SESSION 1
Afternoon | 13.30 – 17.30

Chairpersons: L. PRIETO – A. TAGLIABRACCI

**FORENSIC GENETICS**

**OP-1**
Probabilistic multi-software Low Template-DNA mixtures interpretation. A new approach to prevent mistakes in real casework highly challenging samples
P. GAROFANO

**OP-2**
Planning, start up, validation and QA of a forensic genetics laboratory. Body fluid ID, mixture interpretation and ethnic affiliation estimation
P. GAROFANO

**OP-3**
When the alleged father has a twin, which is the role of the forensic genetics in the attribution of the paternity?
M. PORTAS

**OP-4**
The use of DNA database of biological evidence from sexual assaults in criminal investigations. A successful experience in Brasilia, Brazil
T. G. FERREIRA SAMUEL

**SYSTEMS BIOLOGY APPLIED TO BIO-MEDICOLEGAL SCIENCES**

**OP-5**
A study of potential cytotoxic effect of 1,4 dioxane on human hepatic cells (Hep10) and possible effect on expression profiles of CYP2E1 & CYP2A6 genes
G. BEGUM

**OP-6**
Human papillomavirus warts in childhood. Diagnostic and medico-legal considerations
C. D’OVIDIO

**OP-7**
Micro-RNA profiling in a sudden unexpected death in epilepsy
M. DE MATTEIS

**OP-8**
Potential cytotoxic and genotoxic effects of lead on human dermal fibroblast cell lines in vitro
R. GOMAA

**FORENSIC ODONTOLOGY**

**OP-9**
Teeth by numbers
D. BETTI

**OP-10**
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**OP-20**
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W. DUIJST

**OP-21**
The crime scene to courtroom initiative. Forensic science training for capital litigators
C. HENDERSON

**OP-22**
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F. A. TIRONI
### Wednesday, 22nd of June, 2016

*Sala Welles*

### SESSION 2

**Afternoon | 13.30 - 17.30**

Chairpersons: **M. CAPLINSKIENE – S. A. DOMITROVICH**

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- P. CATHALA
- F. MAGLI
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- E. SCALICI
- B. SLAVCHEV
- S. BURKHARDT
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- V. C. SHNAIDMAN
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Thursday, 23rd of June, 2016
Sala Zorzi

SESSION 3
Morning | 9.00 – 13.00

Chairpersons: C. P. CAMPOBASSO – T. DOSTALOVA

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_**FIRST AUTHOR**_ S. T. LARSEN

**OP-45** Racial differences in skeletal maturation in African and white children assessed with hand-wrist methods  
_**FIRST AUTHOR**_ V. SANTORO

**OP-46** Classified epiphysis automatically with support vector machine in distal radius and distal ulna  
_**FIRST AUTHOR**_ Y. WANG

**OP-47** The difficult task of diagnosing prostate cancer metastases on dry bone  
_**FIRST AUTHOR**_ E. CASTOLDI

**OP-48** Analysis of characteristics of three different 3D surface scanners employed in Forensic Sciences  
_**FIRST AUTHOR**_ M. C. SERRA

**OP-49** Experimental analysis of post-mortem-interval in aerated cemetery burial recesses vs. inhumation and traditional burial recesses  
_**FIRST AUTHOR**_ E. GUARESCHI

**OP-50** Kinesiological analysis in osteoarchaeology. Reconstruction of pathomechanics, treatment and walk from a post medieval femur fracture  
_**FIRST AUTHOR**_ M. LICATA

**OP-51** Additive manufacturing applied to Forensic Sciences  
_**FIRST AUTHOR**_ C. M. S. FERNANDES

**OP-52** Reconstructing the life of an unknown mummy. Multidisciplinary study suggests severe Chagas disease and ritual homicide  
_**FIRST AUTHOR**_ O. PESCHEL

**OP-53** Skeletal human remains in Straumsvik, Iceland. Solving a 50 year old murder case?  
_**FIRST AUTHOR**_ S. RICHTER

**OP-54** The effect of demographic and clinical variables on fracture healing  
_**FIRST AUTHOR**_ Z. OBERTOVÁ

**OP-55** Identifying the origins of bone damage from topographic 3D profiles recorded with optical interferometry  
_**FIRST AUTHOR**_ S. WÄRMLÄNDER

**FORENSIC ANTHROPOLOGY**

**OP-56** Challenges to positive (personal) identification of historically unidentified remains  
_**FIRST AUTHOR**_ K. GRUSPIER

**OP-57** Post-mortem CT and forensic odontological identification in Copenhagen, Denmark. Present workflow and results from a study  
_**FIRST AUTHOR**_ S. ARGE

**OP-58** Facial reconstruction. The thickness of the soft tissue of the face in a sample of caucasian calculated by CT scan  
_**FIRST AUTHOR**_ A. DE DONNO

**OP-59** Multidisciplinary cooperation in forensic casework of skeletonized remains. An essential approach  
_**FIRST AUTHOR**_ G. LANDI

**OP-60** Personal identification of the living in child sexual abuse materials  
_**FIRST AUTHOR**_ D. LORKIEWICZ-MUSZYNSKA

**OP-61** Unusual patterns of scavenging by cookiecutter sharks on the victims of the Yemenia crash (June 30, 2009)  
_**FIRST AUTHOR**_ A. RIBEREAU-GAYON

**OP-62** Sexual dimorphism in frontal inclination angles measured from digital 3D models from four different world populations  
_**FIRST AUTHOR**_ A. PETAROS

**OP-63** Sex estimation of human crania using mastoid process volume. A novel digital method developed on 3D models of dry crania  
_**FIRST AUTHOR**_ A. PETAROS

**OP-64** Sex determination based on measurements obtained from a thoracic vertebra and ribs  
_**FIRST AUTHOR**_ S. TSUBAKI
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F. S. ROMOLO

OP-66  Experimental staining in the barrel (part II). The gap between muzzle and target  
C. SCHYMA

OP-67  Contact or distance shot? The morphological appearance of the permanent cavity by shots with semi-jacketed bullets  
V. STERZIK

OP-68  Craving suicide  
N. CUCURACHI

OP-69  A complex suicide case  
G. PATRU

OP-70  Differentiating between fresh and thawed amputated decomposing limbs. A macro- and microscopic approach  
T. KRAP

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OP-73  Hypersensitivity vasculitis and sudden death  
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OP-77  Sudden death due to endomyocardial fibrosis. A case report  
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OP-78  Elderly suicide in Portugal. A two year study of autopsy reports  
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OP-79  Multidisciplinary approach in sudden cardiac death of young. The value of post-mortem genetic analysis  
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OP-80  Autopsy performance time. When should an autopsy be performed?  
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OP-81  SEM–EDS analysis on the skin of cadavers for the detection of environmental residues  
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OP-82  A case of early perinatal death due to congenital diaphragmatic hernia  
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Thursday, 23rd of June, 2016
Sala Zorzi

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Chairpersons: C. JACKOWSKI - R. VAN RIJN

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**OP-86** Micro-CT features of saw and cut marks on human bones before and after exposure to fire. A preliminary study  
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**OP-87** Countrys’ borders. Search for persons  
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**OP-88** Pulmonary embolism in PMCT  
A. HEINEMANN

**OP-89** Very economical immersion pump feasibility for post-mortem CT angiography  
W. SCHWEITZER

**OP-90** Detection of traumatic pseudoaneurysm of internal carotid artery inside the sphenoid sinus by combination of postmortem MSCT, MRI and angiography  
Y. SHAO

**OP-91** Detection of right cardiac rupture using post-mortem computed tomography angiography by cardiac puncture  
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**OP-92** The truth lies within. The value of inner livores in a homicide case  
E. BRENCICOVA

**OP-93** Automatic entry point planning for robotic post-mortem CT-based biopsy needle placement  
L. C. EBERT

**OP-94** Friar Leopoldo Mandic (1866–1942): the computed tomography of the body of a Saint  
V. MACCHI

**OP-95** PMCT forensic imaging as routine added value to classic autopsy. Operative-manual for multidisciplinary win-win results in the Swiss Canton Ticino  
M. PALMESINO

**OP-96** Post-mortem CT and stab wounds  
G. PATRU

**OP-97** Advantages and limits of post-mortem computed tomography in the investigation of gunshot wound deaths  
E. RADHESHI

**OP-98** PMCT skull trajectory reconstruction of multiple gunshot in two homicidal cases with PACS reconstruction software  
M. P. SCARPELLI

**OP-99** Juvenile sudden cardiac death. When post-mortem magnetic resonance imaging is suitable? Surely in ARVC/D cases  
T. GUERRINI

**FORENSIC ENTOMOLOGY**

**OP-100** Molecular biologist, please, do not destroy the evidence  
F. TUCCIA

**OP-101** Chronobiological studies on body search and emergence of first colonizer flies in outdoor cases  
S. VANIN
# Thursday, 23rd of June, 2016

*Sala Welles*

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*Afternoon | 14.00 - 18.30*

Chairpersons: R. GIORGETTI – C. SCHYMA

### FORENSIC PATHOLOGY

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| OP-103 | Baby Tyler case. Should medical examiners use uncorroborated statements by defendants versus only objective, scientific, medical evidence in reports? | **J. S. DOMITROVICH** |
| OP-104 | Mortui vivos doce(a)nt. The opinions of Italian undergraduate students towards the donation of bodies for didactic and scientific purposes | **D. GIBELLI** |
| OP-105 | Mistakes in expertise by maternal death | **R. HADJIJEV** |
| OP-106 | Forensic pathology publishing. What does the future hold? | **C. MARQUES PONTINHÀ** |
| OP-107 | Tritícea cartilage. The most important anatomical variation to consider when examining larynx fractures | **J. PINHEIRO** |
| OP-108 | The use of Mini–CrimeScope to detect organic and inorganic traces on the corpse. Case report of a homicide case by suffocation | **E. RADHESHI** |
| OP-109 | Forensic medical examination of death in police custody and imprisonment | **M. SCHWERER** |
| OP-110 | Investigations into deaths under responsibility of the police. Obligations under the European Human Rights Convention and practice in the Netherlands | **E. THOONEN** |
| OP-111 | Comparison of medico-legal systems, specifically related to post-mortem examination, across Europe | **C. WOUDENBERG-VAN DEN BROEK** |
| OP-112 | Paradoxical gas embolism during consensual sexual intercourse in an elderly woman | **D. ZWAHLÉN** |

### FORENSIC TOXICOLOGY

| OP-113 | Underlying substance abuse in drunk drivers. Lack of a uniform toxicological protocol in assessing fitness to drive | **A. NALESSO** |
| OP-114 | Structural stability of Cyclohexylphenol CP 47,497 (C8 Homologue) to the burning temperature of cigarette | **M. DI FELICIANTONIO** |
| OP-115 | Developing a validated method for simultaneous determination of 15 synthetic cannabinoids | **M. GÜRLER** |
| OP-116 | The use of fingerprints for drugs of abuse testing | **M. ISMAIL** |
| OP-117 | Using the Waters® Forensic Toxicology application solution with Unifi® to screen for cannabis | **R. LEE** |
| OP-118 | Guidelines for diagnostic pathways of drug addiction, abuse or consumption in the area of Criminal Justice. Project Ca.To.Di. Preliminary report | **S. LIBIANCHI** |
| OP-119 | A forensic toxicological approach in monitoring the therapeutic use of Sativex in multiple sclerosis | **N. MAGUOLO** |
| OP-120 | Occupational exposure to ketamine. A retrospective and prospective toxicological study | **S. VOGLIARDI** |
| OP-121 | A case of suicide by ingestion of caffeine | **A. BONSIGNORE** |
| OP-122 | Fatal overdoses by illicit and prescription drugs in autopsy material of Bratislava (Slovakia) forensic medicine workplaces | **J. SIDLO** |
| OP-123 | Quantification of 11-nor-9-Carboxy-THC in hair using a hybrid triple quadrupole linear ion trap mass spectrometer? | **X. HE** |
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**Friday, 24th of June, 2016**  
*Sala Zorzi*

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Chairpersons: **C. TERRANOVA - J. TUUSOV**

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| OP-163 | Sudden death during physical restraint by the Dutch police | L. DIJKHUIZEN |
| OP-164 | Reproductive medicine: Comparative juridical analysis of European and Serbian laws on abortion | G. KOVACEK STANIC |
| OP-165 | The meaning of Being as a nurse involved in the work of death investigation. A North American view and its implications to practice in England | J. RUTTY |
| OP-166 | Forensic medical identification of 355 cases with hearing impairment | X. Y. YANG |
| OP-168 | The prior state in the affection of the contralateral limb. Synergistic aggravation and a new perspective on the evaluation of damage under civil law | P. C. OLIVEIRA |
| OP-169 | The application of the doctrine of a loss of a chance to recover in medical law | P. VAN DEN HEEVER |
| OP-170 | Examination on living persons in Estonia | M. VÄLI |
| OP-171 | The effect of bone type on fracture healing | A. VIERO |
| OP-172 | Forensic identification on erectile dysfunction caused by traffic accidents (248 cases reports) | F. WANG |
| OP-174 | Mandatory medical treatment vs volunteer admission. Problems about psychiatric medical liability | |
| OP-175 | English mental health law and John Rawls's justice as fairness. A vision for the future? | L. BOUIIC |
| OP-176 | Autism spectrum disorders and sexual offences | R. FERRARA |
| OP-177 | Ten years of psychiatric examination of detainees by forensic physicians in the Netherlands | K. VAN DEN HONDEL |
| OP-178 | Suicide notes analysis in Geneva | D. AGUIAR |
| OP-179 | From victim to perpetrator. Forensic medicine considerations on a incest case | R. FERRARA |
| OP-180 | Post-mortem evaluation of capacity to make a will in elderly patient. Increasing relevance of nursing record | D. TORRI |</p>
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General Information

Venue
PALAZZO del CINEMA and PALAZZO del CASINO’ at the Venice Convention Centre, Lungomare Marconi, 30 | 30126 Venice Lido, Italy

Registration Desk
@ Palazzo del Casinò for IALM WORKSHOPS
Only on June 21st from 8:00 to 10:30
Please note that only workshop participants can collect their badges at Palazzo del Casinò to attend the workshop sessions
@ Palazzo del Cinema for IALM SYMPOSIUM
on June 21st from 15:00 to 18:00
on June 22nd, 23rd and 24th from 8:00 to 18:00
Registration desk will be located in Palazzo del Cinema, near the main entrance

Language
English is the official language of the Symposium

Badges
Badges must always be visibly worn during the scientific session, coffee breaks and lunches at Symposium site as well as during social events

Coffee Breaks and Lunches
WORKSHOP
Coffee break and lunch will be served on the corresponding floor, at Palazzo del Casinò to fully registered participants wearing their badges

SYMPOSIUM
Coffee breaks will be served in the exhibition area on the first floor at Palazzo del Casinò and in the foyer of Palazzo del Cinema, while lunches will be served on the third floor of the Palazzo del Casinò

Accompanying Persons have no access to scientific sessions nor to coffee breaks and lunches. Food and beverages are not allowed inside the Symposium rooms

Certificates of attendance
Certificates will be sent via email after the Symposium upon request to ialm2016@sistemacongressi.com

Liability
In registering for the Conference, participants agree that neither the Scientific Committee nor the Organizing Secretariat assume any liability. Participants should therefore organize their own health and travel insurance

Persons with special needs
The Symposium will be held in a barrier-free environment. Should you require any specific assistance, please write to the Organising Secretariat

Changes
The Scientific and Organizing Secretariats reserve the right to change the Conference program for technical and/or scientific reasons
**Banks - Currency**
All banks in Italy exchange foreign currency and traveler's cheques. Banks are open from Monday to Friday from 8.30 am to 1.30 pm and most of them also open for one hour early in the afternoon. The local currency is € (Euro). ATM Automatic teller machines and exchange offices are readily available in Venice. Most hotels, restaurants and shops accept major credit cards but please check first.

**Electrical Supply**
Electricity in Italy is 220 volts, 50 cycles alternating current (AC). If you plan on using your own 110-volt appliances, you will need a voltage converter, unless your appliance is designed to also work with 220 volts electricity (dual voltage). Voltage converters might not be always easy to find. Italian sockets are designed to accept round prongs.

**Mail and Telecommunication**
When calling abroad from Italy, you must first dial the International code “00”, then country code and private number. Italy Country Code is +39 and Venice City Code is 041.

**Emergency contacts**
In case of emergency we provide mobile phone numbers that the participants can use and ask for help: Marisa Sartori +39 347 7279757 (this number will be only operating during the IALM Symposium).
Emergency numbers: Police 113, Ambulance 118, Fire 115

**Tipping**
Tipping up to 10% for outstanding service is of course accepted, but not necessarily expected in Italian restaurants, hotels and taxis.

**Smoking Policy**
Smoking is not allowed inside the Symposium Venue.

**Climate**
Due to its geographic position, the city enjoys a pleasant climate year-round (ranging from 25°C to 35°C in summer and 0°C to 7°C in winter). Remember meeting room temperatures and personal comfort zones vary widely. It is recommended that you bring a sweater or jacket to the sessions (and a swimsuit for your free time!).
Evenings might be windy and humid cause of the sea nearby.

**Insurance Disclaimer**
Participants are responsible for their own insurance. The organizers cannot take responsibility for any accident, loss or damage to participants or their property during the Symposium.

**Contact**
Sistema Congressi s.r.l.
Via Trieste 26 – 35121 Padova, Italy | Ph: (+39) 049 651699
ialm2016@sistemadecongressi.com | www.sistemadecongressi.com
Social Events

Welcome Cocktail

The Welcome Cocktail will greet all of the Symposium attendees. Please consider that, as for the Opening Ceremony, the dress code will be International business attire.

Palazzo del Casinò – 3rd floor, Sala dei Mosaici | From 19:30 to 21:30

Sacred Music Event

The Sacred Music Event will be held at the “Church of Santa Maria del Rosario”, also known as the Chiesa dei Gesuati. This Church is one of the most prominent and characteristic holy sites of Venice, and was built between 1726 and 1735 to replace a smaller church, which can still be found nearby. In this evening’s Sacred Music Event two Composers, who have marked the History of Music and influenced all of those who followed, will meet: Antonio Vivaldi and Johann Sebastian Bach. The particular atmosphere of this location will commingle with the music of Bach and Vivaldi to create a unique and memorable experience. The Concert will be performed by the Orchestra and Choir of the “C. Pollini” Conservatory of Padova.

Director – Paolo Faldi
Choir Director – Mariano Dante
Second Violin and Violin Soloist – Serena Bicego

Entry is free of charge for all of the IALM registered participants. However, given the limited number of available seats, please send a confirmation email to the following email address: scientificsecretariat@ialm2016venice.org

Given the context and the venue, appropriate clothing should be worn.

Church of Santa Maria del Rosario (dei Gesuati)
Fondamenta delle Zattere ai Gesuati, 917 – 30123, Venezia | Commencing at 19:30

To reach the vaporetto terminal located in front of the venue (Zattere) you can take the vaporetto lines 5.2 or 6 from S. Maria Elisabetta terminal (Lido of Venice).”
**Social Events**

**Wednesday, 22nd**

**Special event**
“Evening private guided tour of St. Mark Basilica”

St. Mark’s Church, crowded with visitors during the day, becomes a silent temple of worship as evening falls. The doors of the Basilica will be opened just for you and our private guides. The Basilica is a testament to Byzantium’s influence on Venice. The façade features gold mosaic arches rising above the carved, Romanesque portal; the rooftop is bedecked with five domes, reminiscent of St. Sophia in today’s Istanbul. The Basilica’s interior features marble floors and walls that blend in exquisite, carpet–like patterns and gilded mosaic murals, like icons, adorn the walls. You will admire the golden mosaics illuminated expressly for you, and the guides will take you down to the Crypt to see the Pala d’oro, universally considered to be the most precious and refined expression of Byzantine genius. This will be an unforgettable event!

*Two tours will be organized, at 19:30 and 20:30 and entry is free of charge.*

*The maximum number of visitors is limited to 400.*

**Gala Dinner**

**Thursday, 23rd**

The Gala Dinner will take place at the beautiful Hotel Excelsior, an icon of the Lido’s glamorous past, where tradition and style fit seamlessly together.

Hotel EXCELSIOR

*Lungomare Marconi 41, 30126 – Lido di Venezia | Commencing at 20:30*

*Dress code: International business attire.*
The plague mask, with its long beak and empty eyes, was first described in the 17th century by its probable inventor, Charles de Lorme (chief physician of Louis XIII), who wrote about its strange appearance thus: “The nose [is] half a foot long, shaped like a beak, filled with perfume with only two holes, one an each side near the nostrils, but that can suffice to breathe and carry alonge with the air one breathes the impression of the [herbs] enclosed further along in the beak”.

Today, the plague mask lives on in the imaginations of artists, writers and film-makers and is also associated with a character in the commedia dell’arte, called the Plague Doctor, not to mention that it is one of the most distinctive masks worn during the Venice Carnival.
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