Thursday 25th May

08:00 - 08:30 Welcome coffee  
Opéra Room

08:30 - 09:00 Opening  
Fabricre Dédouit, ISFRI Chair  
Sara Laurencin, vice dean of the Health University, Toulouse  
Vincent Bounes, vice president of Occitanie Region  
Amphitheatre

09:00 - 11:00 Opening sessions  
Chair: Fabrice Dédouit  
Amphitheatre

09:00 - 09:45: Artificial intelligence, blockchain: a link with medicine and death? Anthony Gonnet  
Vandepoorte

09:45 - 10:30: Radiological innovations and forensic imaging. Alain Blum/Nicolas Doui  

10:30 - 11:00 Coffee / Exhibit  
Opéra Room

11:00 - 12:15 Session: Trauma and PMCT  
Chair: Luiz Ferraz Da Silva / Michael Thali  
Amphitheatre

11:00 - 11:30: A young and agile teaches an elderly: benefits of post mortem imaging in forensic pathology. Krzysztof Wozniak


11:40 - 11:50: The impact of PMCT in demonstrating findings difficult to observe at autopsy. Roberto Maselli

11:50 - 12:00: Applications of post-mortem CT at the Paris Forensic Institute between 2021 and 2022. Juliette Oliero

12:00 - 12:15: Case report: Not All That Glitters Is Gold... Standard. Pires-Davidson John

11:00 - 12:15 Session: Fossils, anthropology and imaging  
Chair: Mislav Cavka / Rozenn Colleter  
Capitouls Room

11:00 - 11:35: Virtual explorations of our ancestors. Jose Braga


11:50 - 12:00: Paleoradiology: The utility of Lodox scanning in the assessment of injury in the Later Stone Age of southern Africa. Calvin G Mole


12:15 - 13:15 Lunch / Exhibit  
Opéra Room

12:15 - 13:15 Posters  
Chair: Frédéric Savall / Krzysztof Wozniak  
Opéra Room

• Coronary artery detection using novel water-soluble contrast agents in post-mortem magnetic resonance imaging. Mitsuha Fukami

• Delineation ability of one-scan fused CT with deep learning imaging reconstruction (DLIR) to visualize aortic dissection. Masahiro Yoshida

• Estimation of sex by radiological measurement of the femoral head of an Algerian sample. Ammar Lahouel
- Gunshot residue detection on wounds after carbonization. Céline Guilbeau Frugier
- Legal retention period for imaging data in France in 2023. Manuels Turkiewicz
- Two medico-legal autopsy cases of multinodular and vacuolating neuronal tumor revealed by postmortem MRI. Yohsuke Makino
- Validation and recalibration of the Klales et al. (2012) sexing method for Algerian population using virtual coxal bones. Mohamed Yassine Guellati
- Validation of an automated landmark method based on atlas. Géromine Fournier
- What is the yield of adding post-mortem computed tomography and fast-track toxicology to the medico-legal external examination in a Danish setting? A project outline. Peter Roerdam
- Comparative study on the development of the knee by post-mortem CT, DR, and MRI. Apameh Khatam-Lashgari
- 10:25 - 10:35: An Unusual Victim. Albane Guigné

13:15 - 14:45: Session: Natural death and forensic imaging
Chair: Cristina Jacobsen / Chris O’Donnell
- 13:45 -14:00: A Pastiche of Natural Disease: Radiological/Pathological Correlation. Jamie Elifritz
- 14:00 - 14:20: Characteristics of Acute Coronary Atherothrombosis in Post-mortem CT Angiography. Katarzyna Michaud
- 14:20 - 14:35: The Last Supper: Minimally Invasive CT-Assisted Postmortem Collection of Gastric Contents. Chris O’donnell
- 14:35 - 14:45: An unusual case of venous variant leading to fatal vessel perforation during central venous catheter placement. Jochen Grimm

13:15 - 14:45 Session: Ballistic and forensic imaging
Chair: Céline Guilbeau Frugier / Thomas Ruder
- 13:45 - 14:00: Establishing bullet reference ranges for in situ measurement of common handgun calibers using Lodox imaging. Calvin G Mole
- 14:00 - 14:10: Identification of entry gunshot wounds using hyperdense ring sign on PMCT. Emilien Jupin-Delevaux
- 14:10 - 14:20: Usefulness of virtual reassembly of skull or spine in cases of fragmentation due to high-energy trauma or bone separation through postmortem changes. Haruki Fukuda

14:45 - 15:15 Coffee / Exhibit

15:15 - 16:50 Session: Pediatric and forensic imaging
Chair: Mathilde Ducloyer / Rick Van Rijn (to be confirmed)
- 15:15 - 15:45: What is the interest of post mortem imaging in pediatrics? Mathilde Ducloyer
- 15:45 - 16:10: The complementary roles of whole-body postmortem computed tomography and conventional skeletal survey. Rick Van Rijn
- 16:10 - 16:25: Postmortem lung CT findings in infants. Hyodoh Hideki
16:40 - 16:55: How micro-CT imaging can aid a medico-legal investigation in a fatal case of suspected child abuse. Charlotte Primeau

15:15 - 16:50 Session: Odontology and forensic imaging  
**Chair: Guy Rutty / Aleksandra Borowska-Solonynko**
15:15 - 15:40: Odontology, forensic medicine and forensic imaging. Delphine Maret Comtesse
15:50 - 16:00: Methods of creating a panoramic dental image from CT data. Marttinen Fox
16:00 - 16:10: An attempt to estimate age using alveolar bone image. Fujimoto Hideko
16:10 - 16:25: History of a smile. Anne d’Alégre (1565-1619, Laval, France). Antoine Galibourg
16:25 - 16:40: When dental comparative identification is the only way to recognize unknow human remains with a presumed identity? A case report. Géromine Fournier
16:40 - 16:55: Dental age estimation using PMCT: A case of a plaster-embedded infant body found 50 years after death. Yamaguchi Rutsuko

17:00 - 17:30: Closing session of the day  
**Chair: Dédouit Fabrice**
Paleoradiology. Frank Ruhlil

18:15 - 20:00 Cocktail at the City Hall  
*After 20:00: Evening free*
**Friday 26th May**

07:30 - 08:30  
Editorial meeting for the Journal “Forensic Imaging”  
(for editorial board only)  
(2: Croix Baragnon Room)

08:00 - 8:30 Welcome coffee  
(2: Opéra Room)

08:00 - 10:30  
Parallel Session  
TWGPAM symposium (Technical Working Group Postmortem Angiography Methods)  
(limited to 80 persons max)

**Chair: Silke Grabherr**  
Learn how making postmortem angio CTs scan is possible!

08:00 - 08:35: TWGPAM and Post-mortem angiography. **Silke GRABHERR**
08:35 - 09:00: Postmortem imaging of sudden cardiac death, the pathologist’s perspective. **Katarzyna Michaud**
09:00 - 09:20: Intravascular pressures during MPMCTA. **Florian FISCHER**
09:20 - 10:20: Interpretation of post-mortem angiography. Practical cases. **Virginie MAGNIN**
10:20 - 10:30: Conclusion and final discussion.

08:30 - 10:30  
Session: Identification / Anthropology and forensic imaging  
Amphitheatre  
Chair: Fabio Cavalli / Chiara Villa

08:30 - 08:55: Paleo imaging. **Mislav Cavca**
08:55 - 09:15: Rutty’s Rules. **Guy Rutty**
09:15 - 09:30: Ötzi the Iceman: forensic 3D reconstructions of a 5300-year-ago murder case. **Chiara Villa**
09:30 - 09:45: Once Upon a Time ........ The Secrets of Glaciers. **Bettina Schrag**
09:45 - 10:00: Use of postmortem computed tomography in disaster victim identification: Current Japanese methods and challenges. **Maiko Yoshida**
10:00 - 10:15: Mummy Bone Density - A dual-energy CT-based method for measuring bone volume fraction in a mummified body that yields accurate results even in the presence of air in the bones. **Dominic Gascho**
10:15 - 10:30: Lodox Linear Slot Scanning Radiology (LSSR) - Unique Radiology Technology in Forensics. **Efthimia Tzetis**

10:30 - 11:00  
Coffee / Exhibit  
(2: Opéra Room)

11:00 - 12:00  
Gil Brogdon Honorary Lecture  
Chair: Dédouit Fabrice

Complementary investigations: weapon marks examination techniques on wounds. **Céline Guillebeau Frugier**

12:00 - 13:00  
Lunch / Exhibit  
(2: Opéra Room)
12:00 - 13:00  Posters
Chair: Frédéric Savall / Krzysztof Wozniak

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- An Unusual Victim. Albane Guigné

13:00 - 14:00: Working Groups
Kindly choose your working group for one hour of brainstorming with your leader.
The aim would be to write white papers that can be published, to write recommendations papers concerning the use of specific radiological tools depending the medico legal context or case …, Update past published articles written by WG …, Develop your network, Develop your collaborations with other scientific societies.

WE NEED YOU!

DVI - Krzysztof Wozniak  Splitted Amphitheater
Education - Makino Yohsuke  Splitted Amphitheater
Guidelines - Jamie Elifritz  Filatiers Room
Image acquisition - Natalie Adolphi  Perche Pinte
Paediatric imaging - Rick Van Rijn  Croix Baragnon
Forensic anthropology - Chiara Villa  Capitouls

14:00 - 15:30: Session: Education and forensic imaging
Chair: Hideki Hyodo / Silke Grabherr (to be confirmed)
14:00 - 14:30: Fetal postmortem imaging using contrast enhanced micro-CT and 3D ultrasound. Bernadette De Bakker
14:30 - 15:00: Post-mortem imaging techniques as complementary tools for the teaching of anatomy at the Faculty Unit of Anatomy and Morphology in Lausanne. Sara Sabatasso
14:50 - 15:10: Updates on the New Mexico Decedent Image Database. Heather Edgar

14:00 - 15:30 Sessions - Scientific communications
12th Annual Meeting of the International Association of Forensic Radiographers
Chair: Lindsay Batty-Smith / Philippe Gerson
14:05 - 14:20: Current forensic imaging practices in Australia and New Zealand: Results from ANZ IAFR survey. Courtney Steels
14:20 - 14:35: Stature estimation of the South African male population using the postmortem Lodox imaging. Marise Heyns
14:35 - 14:50: From Yugoslavia to Ukraine? - The role of radiography in the forensic investigation and victim identification of war crimes. Mark Viner
14:50 - 15:05: Proposed radiation doses from a phantom study for an NAI skeletal survey X-ray series. Edel Doyle
15:05 - 15:20: Confirmation of Cardiomegaly from the Cardiothoracic Ratio in Post Mortem Lodox® Imaging. Marise Heyns

15:30 - 16:00 Coffee / Exhibit

16:00 - 16:15: Standards of practice in forensic age estimation with CT of the medial clavicular epiphysis – a systematic review. Thomas Ruder
16:20 - 16:35: Unaccompanied Minors Automatic Forensic Age Estimation (UMAFAE): applying artificial intelligence-based methods to estimate legal age in undocumented minors. Stefano De Luca
16:35 - 16:45: Virtopsy approaches forensic use of 3D radiological data to confirm suspected personal identity. Wolf Schweitzer
16:45 - 17:00: Postmortem CT: the experience of the Research Unit of Paleoradiology and Allied Sciences of Trieste. Martina Montanaro
17:00 - 17:15: The practice of forensic anthropology and odontology. Fathéma zehra Bounif

16:00 - 17:15 Session: Identification /anthropology
Chair: Krzysztof Wozniak / Bernadette De Baker
16:00 - 16:20: Standards of practice in forensic age estimation with CT of the medial clavicular epiphysis – a systematic review. Thomas Ruder
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16:00 - 17:15 Parallel Session II
2nd Annual Meeting of the International Association of Forensic Radiographers
Chair: Edel Doyle / Eric Dumousset
16:05 - 16:25: Micro-CT imaging for forensic case work: A collaboration between West Midlands Police and WMG, Warwick University, UK. Charlotte Primeau
16:35 - 16:45: Novel water-soluble contrast agent for whole body postmortem magnetic resonance imaging. Yamamoto Tomoaki
16:45 - 17:05: Importance of additional sequences and postprocessing techniques in postmortem MRI. Kojima Masatoshi

17:30 - 18:30 General Assembly of the ISFRI

19:30 - Gala diner
## Saturday 27th May

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Venue</th>
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<tbody>
<tr>
<td>08:00 - 08:30</td>
<td>Welcome coffee</td>
<td>Opéra Room</td>
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<tr>
<td>08:30 - 11:00</td>
<td><strong>Session: Forensic imaging and technology I</strong></td>
<td>Amphitheatre</td>
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<td><strong>Chair:</strong> Wolf Schweitzer / Yanko Kolev</td>
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<td>08:30 - 09:00</td>
<td>The use of Image Guided Minimally Invasive Autopsy in Brazil. <strong>Luiz Ferraz Da Silva</strong></td>
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<td>09:00 - 09:15</td>
<td>Postmortem Infrared Coronarography of the Human Heart. Results and Improved Technical Protocols. <strong>Yanko Kolev</strong></td>
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<td>09:15 - 09:30</td>
<td>Evaluation of subject-specific finite element analysis of skull fracture as a forensic tool. <strong>Mikkel Henningsen</strong></td>
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<td>09:30 - 09:45: Micro Computed Tomography for Post Mortem Imaging. <strong>Daniel Docter</strong></td>
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<td>09:45 - 10:00: Virtopsy of isolated bones: better fracture morphology by reducing bone surface CT artifacts through using a water bed. <strong>Wolf Schweitzer</strong></td>
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<td>10:00 - 10:15: DECT and QCT-based Measurement of Bone-Volume Fraction - An Ex Vivo Pairwise Comparison. <strong>Patrik Wili</strong></td>
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<td>10:15 - 10:30: In situ determination of pH in brain tissue using postmortem 1H-MRS. <strong>Dominic Gascho</strong></td>
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<td>10:30 - 10:45: Automated classification of ballistic-related Post-Mortem CT reports using Natural Language Processing. <strong>Joseph Benzakoun</strong></td>
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<td>10:45 - 11:00: Quantitative morphological analysis by Fourier elliptical descriptors in 3D. <strong>Pierre-Emmanuel Zorn</strong></td>
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<td>08:30 - 11:00</td>
<td><strong>Forensic imaging and miscellaneous</strong></td>
<td>Capitouls Room</td>
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<td><strong>Chair:</strong> Mathilde Ducloyer / Nathalie Adolphi</td>
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<td>08:30 - 08:55: Postmortem CT and forensic identification: the role of facial approximation and craniofacial superimposition techniques. <strong>Fabio Cavalli</strong></td>
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<td>08:55 - 09:10: Knowing the case inside out: The value of having CT available in the courtroom setting. <strong>Janette Verster</strong></td>
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<td>09:10 - 09:25: Correlation between PMCTA and autopsy findings in violent deaths. <strong>Fehmi Snène</strong></td>
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<td>09:25 - 09:40: When Animals Attack: Forensic Imaging Unit. <strong>Jamie Elifritz</strong></td>
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<td>09:40 - 09:55: Detection of iodine using spectral imaging on PMCT. <strong>Chris O’donnell</strong></td>
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<td>09:55 - 10:05: Image Quality Assessment of Low-Dose Whole-Body Phantom CT Skeletal Surveys for NAI. <strong>Edel Doyle</strong></td>
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<td>10:05 - 10:15: Utility of PMCT in a case of systemic silicone embolism. <strong>Denise Squecco</strong></td>
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<td>10:15 - 10:25: Artifacts in CT-imaging of the brain: A cooling effect? <strong>Frédérique Thicot</strong></td>
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<td>10:25 - 10:40: The use of Postmortem CT-scan and quick toxicology analysis as a supplementary screening method to the medicolegal inquest. <strong>Kisbye Lea Wold</strong></td>
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<td>10:40 - 11:00: The Perils of Fentanyl: An Update on Contraband Drug Smuggling and Abuse in 2023. <strong>Barry Daly</strong></td>
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| 11:00 - 11:30 | Coffee / Exhibit                                                        | Opéra Room       |
11.30 - 13:00 Forensic imaging and technology II  
Chair: Summer Decker / Ebert Lars  
--- Amphitheatre ---

11:30 - 11:45: An algorithm to display multiple CT windows simultaneously using machine learning. **Ebert Lars**
11:45 - 12:00: Mobile 3D crime and accident scene documentation with Apple's LiDAR technology. **Sören Kottner**
12:00 - 12:15: ImagingRing forensics. A cost-effective high-end mobile imaging robot for postmortem computed tomography and simultaneous 3D optical surface documentation. **Dominic Gascho**
12:15 - 12:25: Image analytics for biological profiling of human skeletal remains: the application of transfer learning-based image analysis using a user-friendly visual programming approach. **Ivan Jerković**
12:25 - 12:40: Closed or open? When X-rays help solve a forensic problem in a domestic fire case. **Mathilde Ducloyer, Ronan Vinay**
12:40 - 12:50: Can micro-computed tomography (µ-CT) be informative for microscopic study on lung fragments? About a preliminary study on 13 hanging cases. **Eulalie Pefferkorn**
12:50 - 13:00: Spatial analysis of intimate partner violence against women in the city of Toulouse. **Ryan Toutin**

11:30 - 13:00 Session: Clinical forensic medicine /Asphyxia  
Chair: Jamie Elifritz / Thomas Ruder  (to be confirmed)  
--- Capitouls Room ---

11:30 - 11:45: Imaging after non-fatal strangulation – retrospective analysis over 13 years. **Thomas Ruder**
11:45 - 11:55: Value of medical imaging re-reading in clinical forensics: About two intriguing cases. **Agathe Bascou**
11:55 - 12:05: Diffuse idiopathic skeletal hyperostosis: a clinical case report. **Anthony Ramirez**
12:05 - 12:20: Accuracy of post-mortem computed tomography (PMCT) in diagnosing fractures of the hyoid-larynx complex (HLC). **Sara Larsen**
12:20 - 12:35: Cervical spine disc injuries evaluation using postmortem kinetic CT. **Shogo Shimbashi**
12:35 - 12:50: The value of Micro-CT imaging in the forensic evaluation of neck trauma. **Melanie Timmerman**
12:50 - 13:00: Suspension-Associated Dislocation of the Jaw in Hanging. **Joanna Glengarry**

13:00 - 13:30 ISFRI Board  
Prize for Patricia Flach  
Closing Ceremony  
--- Amphitheatre ---