Marseille Imaging Institute organizes a R&D seminar.

This week will be dedicated to the meeting between our community of researchers, teachers and students with the actors of the socio-economic world. The idea is to present evolution of imaging, professions, life courses to provide our students with a vision of the future and possibilities in the field of imaging.

We have the chance to bring together European and global experts on each theme and also many partners of the socio-economic world.

We offer a dual format (face-to-face or videoconference), an opportunity to ensure the cross-fertilization of disciplines and to promote contacts between students, researchers, teachers and partner of the socio-economic world.

Enjoy...
Here are the different formats and events of the week

**Amphitheatre & Exhibition Hall**

**PLENARY SESSION**
In the amphitheatre, the speakers of the plenary sessions will introduce the thematic field and then develop aspects of the state of the art and the most recent advances.

**JOB MEETING**
In the exhibition hall, many partners will be present to exchange and discuss about job possibilities in their company in the field of imaging.

**POSTER SESSION**
In the exhibition hall, students will have the chance to present their thesis work in poster format in the exhibition hall.

**DOCTORAL SESSION**
In the amphitheatre, selected PhD students will have the opportunity to orally present their research.

**RESEARCH SESSION**
In the amphitheatre, research focus speakers will focus on the most advanced topics related to their field.

**INDUSTRIAL SESSION**
In the amphitheater, speakers will present the evolution of technologies, life paths... and will be available to discuss AT the BOOTHS located in the exhibition hall.
PROGRAM
R&D Seminar – “IMAGING 2022”

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MRI Imaging
26th of September – 9:30 AM

PLENARY SESSION – Alexandre VIGNAUD
UHF MRI, the field of dreams.
CEA Neurospin, Paris-Saclay, FRANCE.

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EXHIBITION Hall, POSTER SESSION – 11 AM

Industrial Partners / MULTIWAVE Imaging, VENTIO
Academic Partners / CISAM, Pepite Provence, Institut Carnot Star

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Lunch Break

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DOCTORAL SESSION – 1:30 PM

- Pierre DAUDE (1:30 PM) – Trajectory correction enables Free running cardiac Dixon for proton-density fat fraction quantification at 3T.
  Centre for Magnetic Resonance in Biology and Medicine (CRMBM), Aix Marseille Univ, FRANCE

  Centre for Magnetic Resonance in Biology and Medicine (CRMBM), Aix Marseille Univ, FRANCE
PROGRAM
R&D Seminar – “IMAGING 2022”

RESEARCH SESSION – 2:30 PM

- Nikolai AVDIEVITCH (2:30PM) – Upcoming title.
  Max Planck Institute, Department High-field Magnetic Resonance, University of Tübingen , 72076, Tubingen, GERMANY

- Patrick COZZONE (3 PM) - The Bioimaging Consortium in Singapore.
  CRMBM-CMEREM, UMR 7339, CNRS, Aix-Marseille University, Marseille, FRANCE.

Coffee Break

INDUSTRIAL SESSION – 4:15 PM

- Marc DUBOIS (4:15PM) - MRI for All – Ultra-Portable Low Field MRI scanner.
  MULTIWAVE Imaging, Marseille, FRANCE

- Upcoming (4:45 PM) - Upcoming title.
  SIEMENS, Marseille, FRANCE.
ARTIFICIAL INTELLIGENCE for medical Image Applications
27th of September – 9:30 AM

PLENARY SESSION – Carole LARTIZIEN
A 45 min tour of deep learning for medical image analysis.
CREATIS Medical Imaging research Center, Lyon, FRANCE.

EXHIBITION Hall, POSTER & JOB MEETING – 10:30 AM
Industrial Partners / VENTIO, Avicenna, Intradys, Pytheas Navigation
Academic partners / CISAM, Pepite Provence, Institut Carnot Star

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Lunch Break
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DOCTORAL SESSION – 1:30 PM

• Armando GARCIA (1:30 PM) – Synthetic Computed Tomography Generation for Magnetic Resonance-only Radiotherapy.
  FRESNEL Institute, Aix Marseille Univ, FRANCE

• Marc-Adrien HOSTIN (2 PM) – CNN-based segmentation in neuromuscular MRI
  Centre for Magnetic Resonance in Biology and Medicine (CRMBM), Laboratoire d'Informatique et Systèmes (LIS), Aix Marseille Univ, FRANCE

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INDUSTRIAL SESSION – 2:30 PM

- Guillaume DARDENNE (2:30 PM) - FollowKnee: an innovative workflow for Total Knee Arthroplasty.
  Laboratoire de Traitement de l’Information Médicale, LaTIM, UMR INSERM 1101, Brest, FRANCE.

- Cyril DI GRANDI (3 PM) – Avicenna.ai - l’AI Factory - entreprenariat et technologie.
  Artificial Intelligence solutions for Radiology
  AVICENNA.AI, La ciotat, FRANCE

- Gwenael GUILLARD (3:30 PM) - Upcoming title.
  Interventional neuroradiology
  INTRADYS, Plouzané, FRANCE.

Coffee Break

INDUSTRIAL SESSION – 4:30 PM

- Raphaël LA GRECA (4:30PM) - Upcoming title.
  Technologies to help surgery
  PYTHEAS NAVIGATION, Marseille, FRANCE

- Ludovic DE ROCHEFORT (5 PM) – Ventio, digital health startup - valorization of innovative brain imaging biomarkers - secure image processing on the cloud.
  Data Processing
  VENTIO, Marseille, FRANCE.
PROGRAM
R&D Seminar – “IMAGING 2022”

SYMPOSIUM

CLIMATE IMPACT OF DEEP LEARNING - 5:30 PM

CHAIRMEN:
Marc-Emmanuel BELLEMARE
Laboratoire Informatiques & Systèmes (LIS), Aix Marseille Univ, Marseille, FRANCE

Julien LEFEVRE
Institut de Neurosciences de la Timone (INT), Aix Marseille Univ, Marseille FRANCE

Anne-Laure LIGOZAT
Carbon footprint of deep-learning.
Laboratoire Interdisciplinaire des sciences du numérique (LISN) Université Paris-Saclay, CNRS, ENSIEE, Orsay, FRANCE.
PLenary session – Cathie Ventalon
High-speed recording of neuronal activity in freely-behaving mice using confocal fluorescence imaging.
Institut de Biologie de l’Ecole Normale Supérieure (IBENS), ENS, CNRS-UMR8197, Paris, France.

EXhibition Hall, poster session – 11 AM

Industrial Partners / First Light Imaging, Nikon, Bertin Technologies, Abbelight, Kaerlabs,
Photon Lines
Academic partners / CISAM, Pepite Provence, Institut Carnot Star

Lunch Break

DoctOral Section – 1:30 PM

- Eleanor Munger (1:30 PM) – 3D molecular orientation microscopy via 4 polarized emission channels.
  Fresnel Institute, Aix Marseille Univ, France

- Florian Wernert (2 PM) – Exploring the functional relationship between clathrin pits and
  axonal cytoskeleton through multimodal microscopy.
  Institute of Neurophysiopathology (INP), Aix Marseille Univ, France
RESEARCH SESSION – 2:30 PM

- Aymeric LERAY (2:30PM) – **Fluorescence lifetime imaging microscopy for quantifying molecular interactions by Förster resonance energy transfer (FRET).**
  Laboratoire Interdisciplinaire Carnot de Bourgogne (ICB), Univ de Bourgogne Franche Comté, Dijon, FRANCE.

- Amaury BADON (3 PM) - **Upcoming title.**
  Laboratoire Photonique Numérique et Nanosciences, Univ Paris-Saclay, FRANCE.

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Coffee Break

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INDUSTRIAL SESSION – 4:15 PM

- Nicolas BOURG (4:15PM) - **Upcoming title.**
  Imaging for Microscopy to single-molecule localization
  ABBELIGHT, Cachan, FRANCE

- Paul DORVAL (4:45 PM) - **In-vivo fluorescence imaging :from near infrared to shortwave infrared.**
  In vivo open fluorescence Imaging Near infrared (NIR) and NIR-II
  KAER LABS, Nantes, FRANCE.
**PLENARY SESSION** – Mickael BOURGEOIS  
Theranostic approaches in nuclear medicine: exploration of the cancer phenotype for tailored therapy.  
Nantes-Angers Cancer & Immunology Research Cancer (CRCI2NA), CHU de Nantes, FRANCE.

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**EXHIBITION Hall, POSTER & JOB MEETING** – 11 AM

Industrial Partners / PMB-ALCEN, Vect-Horus, Newton Partners  
Academic partners / CISAM, Pepite Provence, Institut Carnot Star

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Lunch Break

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**DOCTORAL SESSION** – 1:30 PM

- **Floriane CANNET** (1:30 PM) – Deep-learning data processing of spectral PC-CT longitudinal studies to design and optimize combined Immuno-anticancer Treatments in liver cancer mouse models.  
  Centre de Physique des Particules de Marseille, Aix Marseille Univ, FRANCE

- **Béatrice LOUIS** (2 PM) – Development of a nanoradiotracer for the molecular imaging of tumor vascular heterogeneity.  
  Centre de Recherche en CardioVasculaire et Nutrition (C2VN), Aix Marseille Univ, FRANCE
INDUSTRIAL SESSION – 2:30 PM

- Laurent TANGUY (2:30 PM) - Automated microfluidic production of radiotracers for personalized medicine.
  Technologies for radiotherapy
  PMB-ALCEN, Peynier, FRANCE

- Michel KHRESTCHATISKY (3 PM) - Upcoming title.
  Biotechnologies to deliver imaging agents or therapeutic molecules in brain
  VECT-HORUS, Marseille, FRANCE.

Coffee Break

INDUSTRIAL SESSION – 4:15 PM

- David BECHARD (4:15PM) - Upcoming title.
  NEWTON PARTNERS, Saint-Etienne-de-Montluc, FRANCE

GALA Evening – Docks de Marseille (7-11 pm)

Visit of Anise Museum
Visit of Marseille in augmented reality
Cocktail & Awards
MULTIMODAL Imaging
30th of September – 10:00 AM

PLENARY SESSION – Benoit LARRAT
Upcoming title.
CEA, Paris, FRANCE

EXHIBITION Hall, POSTER SESSION – 11 AM

Industrial Partners / E-Scopics, Deepcolorimaging
Academic partners / CISAM, Pepite Provence, Institut Carnot Star

Lunch Break

INDUSTRIAL SESSION – 2:00 PM

• Claude COHEN-BACRİE (2 PM) – Upcoming title
  Innovative ultrasound tools
  E-SCOPICS, Aix-en-Provence, FRANCE

• Alexis VRIGNAUD (2:30 PM) - Upcoming title.
  Photoacoustic tomography
  DEEPCOLOR IMAGING, Nantes, FRANCE.
RESEARCH SESSION – 3:15 PM

- Pierre FAU (3:15PM) - MRLinac the complex combination.
  Institut Paoli-Calmettes, Marseille, FRANCE

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Coffee Break

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CONCLUSION & CLOSING TALK

Stefan ENOCH, Directeur de l’institut Marseille Imaging