

CARAC 2025



Thursday, 11 December 2025 - Thursday, 11 December 2025

IBS Seminar Hall,

Programme

08:30 - 09:00 | Welcome and Coffee - Accueil et café de bienvenue

Location: IBS Ground Floor

09:00 - 09:10 | Opening Remarks from the Directorate of IRT Nanoelec - Discours d'ouverture de la Direction de l'IRT Nanoelec

Speaker / intervenant: Francois Legrand

Chair / Modérateur : Ennio Capria

Location / Lieu : IBS Seminar Hall

09:10 - 10:00 | Facility Director's representatives Roundtable - Table ronde des représentants de la Direction des installations

Theme: Retrospective on 10 years of characterization progress: 'Impact on industry' 'What the new facility upgrades can do for modern industrial challenges'

Bilan sur 10 ans de progrès en caractérisation : l'impact concret sur l'industrie et le potentiel des nouvelles mises à niveau des installations face aux enjeux industriels actuels

Chair & Moderator | modérateur : Francois Legrand

Location: IBS Seminar Hall

Organization | Speaker | Function

CEA-Leti | Narciso Gambacorti | Program Manager Nanocharacterization & Metrology

CMTC - Grenoble INP | Laurent Maniguet | Director of the CMTC

European Synchrotron Radiation Facility (ESRF) | Tobias SCHULLI | Head of the X-ray Imaging and Microscopy Group

Institut Laue Langevin | Richard Davies | Industrial Applications Scientist

Institut Neel | Eric Mossang | Research Engineer

10:00 - 11:00 | Session 1: Current reliability challenges in Microelectronics Characterization - Scientific presentations | Défis actuels de la fiabilité dans la caractérisation microélectronique – Présentations scientifiques

Chair - Modératrice : Agnieszka Corley Wiziak
Location: IBS Seminar Hall

10:00 - 10:20 | Artificial Intelligence (Reliability challenges for AI chips)

Investigation and engineering of innovative phase-change alloys for next generation of Non-Volatile Memories targeting high array densities in AI applications: state of the art and future challenges | Intelligence Artificielle (Défis de fiabilité pour les puces d'IA) - Étude et ingénierie d'alliages innovants à changement de phase pour la prochaine génération de Mémoires Non Volatiles ciblant de hautes densités matricielles dans les applications d'IA : état de l'art et futurs défis

Speaker: Gabriele Navarro (HDR, Senior Scientist-Engineer, CEA-LETI)

Download the abstract:

<https://workshops.ill.fr/event/544/attachments/653/2770/Abstract%20Gabriele%20Navarro.pdf>

10:20 - 10:40 | Advanced characterization for the study of Quantum computing materials - Caractérisation avancée pour l'étude des matériaux de l'informatique quantique

Speaker: to be confirmed

Download the abstract: soon

10:20 - 10:40 | Add more power session : Wide Band Gap semiconductors - Power Electronics (GaN, SiC, InP) - "Plus de puissance" : Semi-conducteurs à large bande interdite – Électronique de puissance (GaN, SiC, InP)

Speaker: Michael Reisinger (R&D Engineer KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH)

Download the abstract: https://workshops.ill.fr/event/544/attachments/653/2769/Abstract%20Michael%20Reisinger%2011_30.docx

11:00 - 11:30 | Coffee Break Meet our experts - Pause café rencontrez nos experts

Location: IBS Seminar Hall

11:30 - 12:10 | Session 2: Sustainability with Material Science - Scientific presentations - Durabilité et Science des Matériaux – Présentations scientifiques

Location: IBS Seminar Hall

Chair: Richard Davies

11:30 – 11:30 - AI for failure analysis

Speaker: Michel Ramez

Abstract: To be shared soon

11:50 – 12:10 - X-Ray methods for Anti-counterfeiting analysis of Electronics
Speaker: Marc Jousse (CTO @ Data Peanuts, Consultant Expert @ Retronix Europe)
Download the abstract: https://workshops.ill.fr/event/544/attachments/653/2768/Abstract%20Michel%20Jousse%2010_30.docx

12:10 - 12:50 | Industrial Testimonials roundtable from PAC-G Partners (Grenoble CARAC Ecosystem) | Table ronde : Témoignages industriels des partenaires de PAC-G (Écosystème CARAC Grenoble)

Chair: Ennio Capria
Location: IBS Seminar Hall

Participants:

- Schneider Electric
- ST Microelectronics
- SOITEC

12:50 - 14:00 | Networking Lunch B2B - Déjeuner

IBS Ground Floor

14:00 - 15:30 | Exhibition and Elevator Pitches from Local Intermediaries/ Analysis Providers - Exposition et Pitches Éclair des Intermédiaires locaux / Fournisseurs de solutions d'analyse

Chair / modératrice : Elodie Boller
Location: IBS Seminar Hall

Exhibitor | Speaker | Function

REACTIV IP | Laurent BERNARD | CEO

Novitom | Andrea CIUFFINI | Commercial Engineer

Rubis CT | Olivier GUIRAUD | CEO

Carl Zeiss SAS | Antonio CASARES | Product & Application Sales Specialist for Electron Microscopy

Cameca | Stephen LETHEUX | Dynamic SIMS, NanoSIMS and Atom Probe sales specialist

Momentun Transfer | Didier BLANCHARD | Synchrotron X-ray Research Engineer

Science Saved | Sophie BOUAT | CEO

Excillum | Julius HALLSTEDT | Head of Segment - Semi and Electronics

RX Solutions | Maeva COUPPE | Head of R&D
Tortoise | Laurent PONSON | CEO
Evident Scientific | Vincent LIEVREMONT | Product Specialist – Materials Science Microscopy

15:30 - 18:30 | Guided tours of partner facilities and demonstrations of recent experimental setups(Shuttle Buses will be available to take participants from One facility to another) - Visites guidées des installations partenaires et démonstrations des montages expérimentaux récents (Des navettes seront disponibles pour transporter les participants d'une installation à l'autre)

Facilities: ESRF, ILL, CEA-Leti and Institut Neel (Only 2 visits per participant)
Meeting Point: IBS Ground floor

Deadline for site visits sign-up:

- 21st November for CEA-Leti (Non-French People)
- 30th November for CEA-Leti (French nationals), ILL, ESRF and Institut Neel.

18:30 - 19:30 | Cheese & Wine Reception - Vin et fromage

Informal networking opportunity with regional wines and local cheese selection and Charcuterie
Location: Cafeteria EPN Campus