



Wednesday June 7th

- 8h45 Welcome to MiNaPAD
- 9h00 Opening by Jean-Marc YANNOU (Auditorium)

9h30 Keynote: Laurent HERARD (ST Microelectronics – BEMT R&D Manager) Packaging innovation – A key enabler for future mobility





SESSION A: Wafer Level Packaging & Flip Chip (Auditorium)

- 10h45 Advanced vertical interconnections for fan-out wafer level packaging applications (Aurelia Plihon / CEA-Leti - France)
- 11h15 Advanced Package Platform VIPACK : FOSiP (Chin-Cheng Kuo /ASE group - Taiwan)
- Packaging of a 25 flip chips module on large dimension AIN ceramic substrate keeping low dead areas and tight planarity
 (Sarah Renault /CEA-Leti France)
- 12h15 Fabrication and characterization of a 2 layers faceto-back test vehicle with high density TSV (Jerzy-Javier Suarez-Berru / CEA-Leti - France)

SESSION B: Characterization & Reliability (Mont Blanc)

Comparative study on electrical performance of wire-bonded BGA packages using non-plating line vs etch-back technology

(Damian Halicki / ST Microelectronics - Italy)

Comparative study of thermal fatigue life of polymer core solder balls (PCSB) and SAC solder balls in BGA interconnections

(I. Malkorra / ESME - France)

Thermal characteristic study of epoxy molding compound with different filler composition (Bo Yu Huang / ASE group - Taiwan) Finite elements analysis of solder joints during

thermal shock tests correlation with dye penetration

(Khalil Maarouf / VALEO - France)

12h45 – 13h35 Lunch (Exhibition Hall) sponsored by



SESSION C: Interconnections (Auditorium)

- 13h40 The study of pure Cu and Pd coated Cu wirebonding on nano-twinned Cu pad/finger (Erh-Ju Lin / ASE group - Taiwan)
- 14h10 Cu second bond response on thin silver pre-plated leadframe packages (Mirko Alesi / ST Microelectronics - Italy)
- 14h40
 Next generation lead-free solder paste for advanced packages

 (B. Senthil Kumar / HERAEUS Germany)
- 15h10 Multiphase full wave system (Jean-Christophe Riou / SAFRAN - France)

SESSION D: MEMs & Optical Packages (Mont Blanc)

Test on package: design and manufacturing of package aimed to electromechanical characterization of MEMS structures

(Marco Del Sarto / ST Microelectronics – Italy) 3D silicon photonic interposer process integration for chiplet based 3D systems

(Damien Saint-Patrice / CEA-Leti - France)

Wafer level optical package for ambient light sensor for mobile and wearable applications with integrated multi-lens array (Niek van Haare / BESI - Netherlands)

3D heterogeneous integration of meta surface lens in an optical package (Patrick Laurent / ST Microelectronics - France)



SESSION E: Panel Session (Auditorium)

16h05	Writing Invention Disclosures to Optimize Patent Value in Europe and the U.S (Richard P. Gilly / Archer & Greiner P.C USA)
16h30	Advanced packaging technology & market trends (Bilal Hachemi / YOLE Developments - France)

16h55	Round Table: The Reindustrialization of Semiconductor Packaging in Europe in the context of the EU Chips Act
	Moderator: BOULAY Sanae (NXP) and De LANGLADE Renaud (EPOSS) Speakers: (NXP), ()STM, YANNOU Jean-Marc (ASE Europe), David HEIN (EGIDE), (European Commission)
18h00	
18h30	Social Event : Château de la Commanderie Sponsored by
	18h30-19h00: Transportation by FAURE Bus from WTC conference
	19h00-20h00: Appetizers & Music by Alpes concerts
	20h00: Dinner

22h30: Return to WTC conference by FAURE Bus



Overview Château de la Commanderie (38320 EYBENS)



Thursday June 8th

8h30 - Opening exhibition and conferences

Session F: Encapsulation (Auditorium)

- 08h45 The phenomenon of creep and overflow in gel dispense process
 (Shih Kun Lo / ASE group Taiwan)
 09h15 Enabling semiconductor packaging materials for
- 09h15 Enabling semiconductor packaging materials for advanced flip-chip and heterogeneous integration (Ruud de Wit / HENKEL - Netherland)

Session G: BGA manufacturing (Mont Blanc)

Advanced IC substrates - challenges in manufacturing and supply chain (Daniel Schulze / DYCONEX - Switzerland) Fabrication and characterization of soft polymer core solder balls (PCSB) for BGA interconnections (I. Malkorra / ESME - France)

9h50 Keynote: Pascal OBERNDORFF (NXP – Head of Package Core Technology) Title



10h30 – 10h50 Exhibition & Coffee break (Exhibition Hall) sponsored by ASE GROUP

Session H: Manufacturing - Plasma (Auditorium)

- **10h55** Panasonic plasma cleaning technology and predictive maintenance by using plasma monitor function (James Weber / PANASONIC Germany)
- 11h25 Cleaning of silicone and hydrocarbon contact residue using atmospheric plasma (Daniel Pascual / ONTOS Equipment Systems – USA)
- 11h55 Improving CCP chamber-plasma-cleaning performance using plasma light emission (OES) analysis data (Jong Won Oh / VISION Semicon – Republic of Korea)

Session I: Manufacturing - Equipment's (Mont Blanc)

Advanced laser grooving and dicing to enable high quality separation of next generation thin semiconductor devices

(Gerald Klug / DISCO – Germany)

Direct writing technologies for interconnection in electronic packaging

(Elodie Pereira / CTTC - France)

An innovative contactless technology for high resolution, high speed, conductive & dielectric materials deposition

(Stéphane Etienne / I-O-TECH, Israel)



12h25 – 13h30 Lunch & Exhibition (Exhibition Hall) sponsored by ASE GROUP

Session J: Advanced Interconnections

(Auditorium)

- 13h35 Development of stretchable and removable electrical interconnection solution for ultra-thin electronic components (Auriane Despax-Ferreres / CEA-LITEN France)
- 14h05 High density interconnect above active CMOS structures utilizing optimized klettwelding of nanowires

(Andreas Kramer / TU Darmstadt - Germany)

- 14h35The failure mechanism of μ-CuP employed in sensor packages
(Erh-Juh Lin / ASE group Taiwan)
- **15h05** Hybrid in-mold electronics process towards novel 3d packaging of components and systems (Philippe Lombard / University of Lyon France)
- 15h35 Closing by Jean-Marc YANNOU (Auditorium)



- 15h40 -16h00 Exhibition /Coffee Break ASE GROUP
- 16h00 End of MiNaPAD 2023 conference