

| 3 July | | | | 4 July | | | | 5 July | | | |
|--|-----------------|--|---|---|------|---|--------------------------------------|---|-----|--|--|
| | | | | | | | | session 4 : Detector Characterization chairman : Olivier GRAVRAND (CEA-LETI) | | | |
| | | | | 8h35 | 2.4 | Modelling of luminescence induced by proton irradiation in space environment. HgCdTe infrared detector array in space environment | Thibault PICHON (CEA-IRFU) | 08h35 | 4.1 | Operating Life Tests at cryogenic temperature. Tools, Methodology and Results | Franck PERRIER (SOFRADIR) |
| 9h30 welcome | | | | 09h00 | 2.5 | Update of SEE Radiation Hardness Assurance of Readout Integrated Circuit of Infrared Image Sensors at Cryogenic temperatures | Laurent ARTOLA (ONERA) | 09h00 | 4.2 | Comparison between Dark Current Random Telegraph Signal Characteristics in Several Technologies of Solid State Image Sensors | Clémentine DURNEZ (ISAE) |
| session 1 : On-going and future mission technology review Chairman : Nick NELMS (ESA) | | | | 9h25 | | Tutorial | | 9h25 | 4.3 | A linear treatment for 2D MTF and pixel spatial response recovery from sparse measurement | Edouard HUARD (ONERA) |
| 9h45 | 1.1 | developments for space missions: status and roadmap | Hervé GEOFFRAY (CNES) | | | Type II superlattice detectors – detector physics and current state-of-the-art | Linda HÖGLUND (IRnova AB) | 9h50 | 4.4 | Crosscorrelating effects in the Sofradir Neptune and AIM EnMAP ROIcs | Andreas NEUZNER (OHB System) |
| 10h10 | 1.2 | The status of European Space Agency supported infrared detector developments | Nick NELMS (ESA) | | | | | 10h15 | 4.5 | Low flux NPG characterisation for MICROCARB application | Aurélien LEDOT (CNES) |
| 10h35 break | | | | 10h25 break | | | | 10h40 break | | | |
| | | | | 10h55 | 2.6 | Recent advances in compact ("SPICE") modeling of integrated semiconductor devices at cryogenic temperatures for defense and space | Bertrand ARDOUIN (XMOD Technologies) | session 5 : SWIR detectors Chairman : Olivier SAINT PE (ADS) | | | |
| 11:05 | Tutorial | | | | | | | | | | |
| | | 2-6 or 3-5's for quantum IR imaging ? Is it a simple question of columns or figures? | Olivier GRAVRAND (CEA-LETI) | 11h20 | 2.7 | Real-time Ultra-High Dynamic Range InfraRed Imaging | David DARSON (ENS) | | | | |
| | | | | 11h45 | 2.8 | A VGA 18 bit digital output CMOS ROIC for shutterless uncooled LWIR 17µm VOx microbolometer FPAs | Sander GIERKINK (Teledyne Dalsa) | 11h10 | 5.1 | e-APD and InGaAs fast low noise infrared camera systems at First Light Imaging | Philippe FEAUTRIER (First Light Imaging) |
| | | | | session 3 : MWIR-LWIR detectors Chairman : Thierry DARTOIS (TAS) | | | | 11h35 | 5.2 | A 400 KHz line rate 2048-pixel Stitched SWIR linear array | RosaMaria VINELLA (XENICS) |
| 12h05 | 1.3 | Development status of NIR to VLWIR IR detectors integrated within under development space optical payloads and recommendations for future space programs | Michel BREART (ADS) | 12h10 | 3.1 | Improved Low Dark Current MWIR/LWIR MCT Detectors: first results of ROIC and MCT tests | Holger HÖHNEMANN (AIM) | 12h00 | 5.3 | Radiation Damage Factor of InGaAs photodiodes | Christophe INGUIMBERT (ONERA) |
| 12h30 lunch | | | | 12h35 lunch | | | | 12h25 lunch | | | |
| 14h00 | 1.4 | Infra Red Detection at Thales Alenia Space : from past to on-going developments and interests | Geoffroy BORDOT (TAS) | 14h00 | 3.2 | HgCdTe p-on-n technology for space applications | Nicolas PERE-LAPERNE (Sofradir) | 14h00 | 5.4 | HgCdTe APDs for time resolved space applications | Johan ROTHMAN (CEA-LETI) |
| 14h25 | 1.5 | Latest advances in cooled and un-cooled infrared detection technology at Leonardo MW | Keith BARNES (Leonardo MW) | 14h25 | 3.3 | MW and LW infrared detectors based on III-V semiconductors for space applications | Lidia LANGOF (SCD) | 14h25 | 5.5 | Time-of-flight Calibration of an MCT-APD sensor for a Flash imaging LIDAR | Victor SARAIYAPARAHYBA (CEA-LETI) |
| 14h50 | 1.6 | Teledyne's High Performance Infrared Detectors for Space Missions | James BELETIC (Teledyne Imaging System) | 14h50 | 3.4 | METImage infrared detectors development and first results | Laurent VIAL (Sofradir) | 14h50 | 5.6 | VIS/SWIR IR detectors for space applications at AIM: models and qualification status | Holger HÖHNEMANN (AIM) |
| 15h15 | 1.7 | Ground based Infrared detector and camera system developments at ESO for the next generation of telescopes and instruments | Derek IVES (ESO) | 15h15 | 3.5 | Issues with Aquarius detector for METIS, the mid-infrared instrument of ELT | Salima MOUZALI (CEA-IRFU) | 15h15 | 5.7 | New IR detector for anthropogenic gas detection and hyperspectral applications | Josef KAMANN (AIM) |
| 15h40 | 1.8 | The Infra-Red Telescope on board the THESEUS mission | Diego GOTZ (CEA-IRFU) | 15h40 | 3.6 | Si:As detector characterisation for JWST MIRI | Daniel DICKEN (CEA-IRFU) | 15h40 | 5.8 | Monolithic Infrared Image Sensors based on Thin-Film Quantum Dot Photodiodes | Epimtheas GEORGITZIKIS (IMEC) |
| 16h05 break | | | | 16h05 break | | | | 16h05 | 5.9 | Safran Reosc coatings on Infrared detectors | el-houcine oubensaid (SAFRAN REOSC) |
| 16h35 | 1.9 | Constraints on the Infrared Technologies for Land and Airborne Defense applications | Eric BELHAIRE (Thales LAS) | 16h35 | 3.7 | Sun Exposure Damage to a Microbolometer in Low Earth Orbit | Ross M HENRY (NASA-GSFC) | 16h30 | FIN | | |
| Session 2 : ROIC and SFD detectors Chairman : Hervé GEOFFRAY (CNES) | | | | 17h00 | 3.8 | Electrical and electro-optical characterizations of LWIR/VLWIR T2SL barrier photon-detector | R ALCHAAR (Montpellier University) | | | | |
| 17h00 | 2.1 | Detector chain calibration for the Euclid flight IR H2RGs | Rémi BARBIER (IPNL) | 17h25 | 3.9 | Characteristics of type-II superlattices – a promising material for space applications | Volker DAUMER (Fraunhofer-IAS) | | | | |
| 17h25 | 2.2 | Characterization of H2RG flight detectors in preparation of the Euclid mission: testflow and the initial results | Aurelia SECROUN (CPPM) | 17h50 | 3.10 | High Reliability Packages for Thermal Imaging in Space | G Chretien (Egide) | | | | |
| 17h50 | 2.3 | Low temperature dark current sources in HgCdTe detector and implication in SFD ROIC architecture | Cyril CERVERA (CEA) | 18h15 | FIN | | | | | | |
| 18h15 cocktail | | | | | | | | | | | |