MEMS & Imaging Summit 2023, Grenoble

Smart and Green Manufacturing Solutions

Future of Imaging Technology

Innovative MEMS Process Equipment

Smart Agriculture Sensors

MEMS sensors and actuators are micro-electromechanical systems that are able to move tiny parts mechanically on a semiconductor chip. It is a well known silicon-based technology and MEMS units are increasingly replacing traditional technology in a broad range of applications. Today MEMS is used in a variety of systems in medical, industrial and automotive applications as well as in consumer electronics and many others.

Laith Altimime, SEMI Europe

The market for MEMS and imaging sensors is being propelled by several megatrends in various industry

Bernard Kress, Google

MicroLEDs/OLEDs, and MEMS laser beam scanning will drive the next generation of display systems

Nicolas Roux, STMicroelectronics

Global shutter cameras are key for robot navigation

Jan Vermeiren, Caeleste

Custom-design CMOS image-sensors

Gerry Conway, Valeo

Robustness and cost are key for the cameras in cars

Martin Cornil, Aerospacelab

Specialises in Micro-Satellites Design

Julien Mottin, Prophesee

Debluring photos of moving events

Martin Groome, GreenWaves Technologies

RISC-V Processor revolutionises true wireless-stereo

Christophe Vautey, CEA-Leti

AddVisia, Grenoble promotes a multi-imagers testing platform

Konrad Semmler, Global Foundries Dresden

Time-to-market is key in prototyping advanced CMOS imaging chips

Marc Sansa, CEA-Leti

CEA-Leti enables ultrasensitive opto-mechanical sensors

Vincent Destefanis, CEA-Leti,

demonstrating an infrared CO2 sensor demo board

Theodor Nielsen, NIL Technology

The key for meta-design is that the light can be steered at will

Philippe Andreucci, Inject Power

New generation of implantable batteries

Joost van Beek , Philips Engineering

Eagle Eye IVUS catheter is state-of-the-art for ultrasound in-body imaging

Erik Corduwener Philips Engineering Solutions

CMUT and F2R platforms are open to customers

Pete Davy, EDA Solutions, UK

Tanner MEMS design tool makes integration of MEMS devices with analog/mixed-signal easy

Sebastien Cases, SoftMEMS, France

MEMS Pro tool generates 3D model

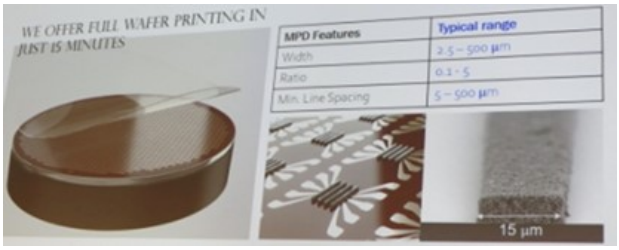
Bernhard Hammerl, Siconnex

The Company has found a chemical which can be used in their batch spray machines

The PERC machines can handle 2-12 inches wafers

Thomas Russell, Mesoline

Our unique 3D printing method offers ultra-small features and is good for MEMS sensors and more



Full wafer printing in just 15 minutes

Christian Kjelde (right) and Tami Isreali, Polyteknik

Demonstrated the Flexible thin film PVD Flextura platform

Flextura PVD system for thin film

Joscha Malin, Comet Yxlon

Next generation 3D X-ray inspection system

provides fast and easy insights to killer defects

in advanced chips with small geometries

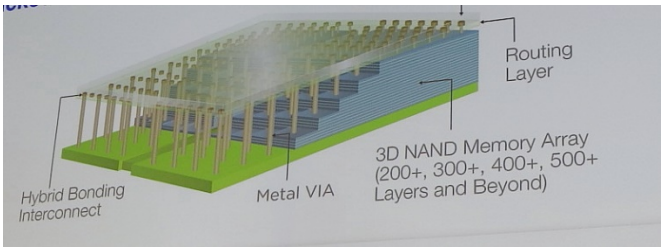
in less than 5 minutes

Enrico Härtel, Comet Yxlon demonstrated the 3D

X-ray system

Abul Nuruzzaman, Adeia

Adeia has developed a versatile platform for hybrid bonding technology



Stacked 3D NAND Memory with Hybrid Bonding

André Henning, Siemens Healthineers

Siemens is using photon-counting scan in its 2. generation computed tomography machine

Naeotom Alpha CT scanner

Heinz Bernhardt, TU Munich

In agriculture the sensor technology must

cope with special requirements and environments

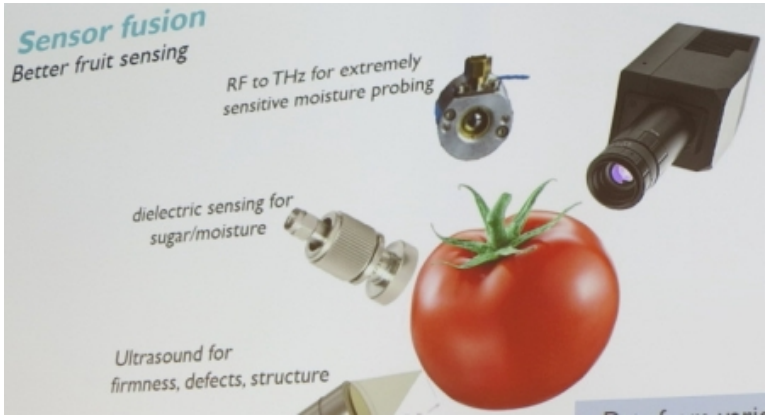
A sensor-hand checking crop

Mark Zentile, OnePlanet

Automation in food production is necessary

and there is a need for advanced and low-cost

sensors



Photonic sensors controlling status of fruit