Training on semiconductor devices, design and manufacturing

Report of Contributions

Training on sem · · · / Report of Contributions

Semiconductors Processing and …

Contribution ID: 0

Type: not specified

Semiconductors Processing and Devices Fabrication - 1st part (crystal growth and epitaxy, thermal oxidation, ion implantation and diffusion)

Monday, 1 July 2013 09:30 (1h 10m)

Presenter:Dr ARENA, Giuseppe (STMicroelectronics)Session Classification:Semiconductor Manufacturing Processes

Training on sem · · · / Report of Contributions

Semiconductors Processing and …

Contribution ID: 1

Type: not specified

Semiconductors Processing and Devices Fabrication -2nd part (Thin film deposition, photolithography, plasma basics, etching and new trends in microelectronics industry)

Monday, 1 July 2013 11:00 (1h 30m)

Presenter:Dr ARENA, Giuseppe (ST Microelectronics)Session Classification:Semiconductor Manufacturing Processes

Photolithography and Etching

Contribution ID: 2

Type: not specified

Photolithography and Etching

Presenter: Dr ARENA, Giuseppe (ST Microelectronics)

TCAD Process and Device Simul ...

Contribution ID: 3

Type: not specified

TCAD Process and Device Simulations

Monday, 1 July 2013 15:40 (50 minutes)

Presenter: Dr MICCOLI, Cristina (STMicroelectronics)

Session Classification: Electrical Testing, Assembly and TCAD Simulations.

Electronic Devices Packaging

Contribution ID: 4

Type: not specified

Electronic Devices Packaging

Monday, 1 July 2013 14:50 (50 minutes)

Presenter: Dr ZIGLIOLI, Federico (STMicroelectronics)

Session Classification: Electrical Testing, Assembly and TCAD Simulations.

STMicroelectronics Silicon Photo ...

Contribution ID: 5

Type: not specified

STMicroelectronics Silicon Photomultiplier Technology

Monday, 1 July 2013 16:50 (50 minutes)

Presenter: Dr VALVO, Giuseppina (ST Microelectronics)**Session Classification:** Technology Development and Applications

First Group Visit (19 Participants)

Contribution ID: 6

Type: not specified

First Group Visit (19 Participants)

Tuesday, 2 July 2013 08:15 (2h 30m)

Session Classification: Visit to STMicroelectronics M5 8"Clean Room Facilities

Second Group Visit (19 Participants)

Contribution ID: 7

Type: not specified

Second Group Visit (19 Participants)

Tuesday, 2 July 2013 10:45 (2h 30m)

Session Classification: Visit to STMicroelectronics M5 8"Clean Room Facilities

X-Ray Photoelectron Spectroscop

Contribution ID: 8

Type: not specified

X-Ray Photoelectron Spectroscopy (XPS) and Secondary Ion Mass Spectrometry (SIMS)

Tuesday, 2 July 2013 14:30 (1 hour)

Presenter: Dr RENNA, Lucio (ST Microelectronics)

Optical Microscopy, Fault Detect

Contribution ID: 9

Type: not specified

Optical Microscopy, Fault Detection and Isolation Techniques

Tuesday, 2 July 2013 15:30 (1 hour)

Presenter: Dr MELLO, Domenico (ST Microelectronics)

Samples Preparation and Transm $\,\cdots\,$

Contribution ID: 10

Type: not specified

Samples Preparation and Transmission Electron Microscopy (TEM)

Tuesday, 2 July 2013 16:50 (1 hour)

Presenter: Dr MELLO, Domenico (ST Microelectronics)

Focused Ion Beam (FIB) and Scan ...

Contribution ID: 11

Type: not specified

Focused Ion Beam (FIB) and Scanning Electron Microscopy (SEM)

Tuesday, 2 July 2013 17:50 (1 hour)

Presenter: Dr MELLO, Domenico (ST)

Welcome and Introduction to the ···

Contribution ID: 12

Type: not specified

Welcome and Introduction to the Course

Monday, 1 July 2013 08:45 (15 minutes)

Presenter: Dr MAZZILLO, Massimo (STMicroelectronics)

The Participants Introduce Them $\,\cdots\,$

Contribution ID: 13

Type: not specified

The Participants Introduce Themselves

Conclusions and Debriefing

Contribution ID: 14

Type: not specified

Conclusions and Debriefing

Tuesday, 2 July 2013 18:50 (10 minutes)

Registration

Contribution ID: 15

Type: not specified

Registration

Monday, 1 July 2013 08:15 (30 minutes)

Electrical Parametric Testing

Contribution ID: 16

Type: not specified

Electrical Parametric Testing

Monday, 1 July 2013 14:00 (50 minutes)

Presenter: Dr SANNELLA, Stefano (ST)

Session Classification: Electrical Testing, Assembly and TCAD Simulations.

Brief Introduction of STMicroele ...

Contribution ID: 17

Type: not specified

Brief Introduction of STMicroelectronics and Microelectronics Historical Notes

Monday, 1 July 2013 09:00 (30 minutes)

Presenter:Dr ARENA, Giuseppe (STMicroelectronics)Session Classification:Semiconductor Manufacturing Processes

Time-of-Flight PET Detector Dev $\,\cdots\,$

Contribution ID: 18

Type: not specified

Time-of-Flight PET Detector Development with SiPMs

Monday, 1 July 2013 17:40 (50 minutes)

Presenter:Dr DOLINSKY, Sergei (GE Global Research Center)Session Classification:Technology Development and Applications