

Preliminary agenda : 2012-09-24

## **THE FIRST WORKSHOP OF THE INFIERI NETWORK: INFIERI PREP-MEETING**

**held on September 26-28, 2012  
at APC, University Paris-Diderot-CNRS, Paris**

*N.B. The general information concerning the overall scientific/technological framework and the logistics/organization of the INFIERI research programme will be explained before the meeting with dedicated discussion with all the Institutes and firms part of the INFIERI consortium and with a folder that will be distributed in advance to all the registered participants. This meeting will thus be fully dedicated to the real start of the collaborative work. The high technological aspects will be discussed together with the important related issues for both the fundamental research and applied fields tackled by this programme.*

*The Meeting will comprise 3 PARTS :*

**Part I :** *Five general talks will introduce the Physics fields covered by INFIERI. The two first talks will present the Experimental panorama in Astrophysics and Particle Physics. The emphasis will be on the CTA & future SKA experiments in Astrophysics and on the LHC experiments at CERN in Particle Physics. Their main scientific goals will be presented to non experts in the field (Physicists from the other fields or Engineers from Industrial Firms or from Research Labs) showing how particularly relevant are the INFIERI technological objectives for these Fundamental Research fields. Similarly the talk on Medical Physics will introduce the field for non experts and show the impact of INFIERI objectives especially in the field of PET/MRI medical imaging ; this third talk is foreseen to be given by an expert from the Industrial world. It introduces us in the "applied sciences" field. The two other talks on Advanced Telecom and Microelectronics and their future prospects/directions, will be essential introductions to the Advanced High Tech areas crucial to INFIERI.*

**PART II :** *Each partner will briefly present her/his Institution (S&T expertise, training infrastructure, technical potential), the main interests in the project and the proposed ESR or ER project(s)*

**Part III :** *Preliminary description of the 8 Workpages that define the INFIERI project and the related deliverables.*

*To conclude the last session will be mainly devoted to the ambitious TRAINING program and related events that we will be organized during these 4 years and the discussion of the WORKPLAN for the 5 next months before the formal launching of this NETWORK and any other topic we will discuss among the ones still attending (video-conf will still be available)*



***N.B. THIS PROGRAM IS STILL IN FIERI  
(Be aware that this program may still be slightly modified/upgraded : stay tuned)***

## September 26, 2012

### 9h30 : registration, coffee and welcome

*(no fees apart from the dinner that will be at the charge of the people attending it)*

### Morning session: 10h00 – 12h30

*NOTE : This morning session is at the Amphiteater Gilles de Gennes in Building Condorcet.*

**PART I : Scientific & Technological Fields covered by the INFIERI network : an introduction**

-- Chairperson : Tim Greenshaw --

- 10h00:** INFIERI and Astrophysics Garret Cotter & SKA expert (tba) (Oxford-UK)  
**10h30:** INFIERI and Particle Physics A. Cattai (CERN) & A.Savoy-Navarro (CNRS)  
**11h00:** INFIERI and Medical Physics Juan Jose Vaquero (UC3M, Madrid-Spain)  
**11h30:** Modern Telecommunication Science and future technological prospects:  
Giancarlo Prati & Ernesto Ciaramella (Sant'Anna, Pisa-Italy)  
**12h00:** Latest Advances in Microelectronics: Grzegorz W Deptuch (FNAL-USA)

### 12h30: LUNCH

*From there on, the workshop will be at FACe with EVO video conference connection.*

### Afternoon session: 13h30 – 19h45

**PART II: The presentation of the INFIERI CONSORTIUM: S&T expertise, training & technical potential**

-- Chairperson : MariaAgnese Ciocci --

- 13h30:** Jan Visser NIKHEF Laboratory in Amsterdam (NL)  
**14h15:** Juan Jose Vaquero University Carlos III in Madrid (Sp)  
**14h40:** Garret Cotter University of Oxford (UK)  
**15h05:** Claire Shepherd & Dave Newbold Rutherford Appleton Lab., Didcot (UK)  
**15h50:** Ernesto Ciaramella Scuola Superiore Sant'Anna in Pisa (It)  
**16h15:** Pedro Da Silva Rodrigues PHILIPS S.A. Eindhoven (NL)

### 16h40 Afternoon Coffee break

-- Chairperson : Juan Jose Vaquero --

- 17h00:** Fabrice Lemonnier & Philippe Bonnot (TRT-Fr) THALES Research & Technology (TRT), Palaiseau (Fr)  
**17h25:** Tim Greenshaw (Liverpool-UK) University of Liverpool (UK)  
**17h50:** Christian Olivetto (CNRS-APC) APC-Paris Diderot U in Paris  
& Catherine Bru-Chevallier (CNRS-INL) Institut of Nanotechnology-Lyon (Fr)  
**18h35 :** Daniela Bortoletto (Purdue U.-USA) Dept of Physics & Nanotechnology Lab U. of Purdue, New Lafayette-Indiana (USA)  
**19h00 :** Tiehui Ted Liu (FNAL-USA) FNAL, Batavia, Ill., (USA)  
& Simon Kwan, Ron Lipton

### 20h45

### DINNER

*(at the Bouillon Racine Brasserie-Restaurant)*

**September 27, 2012**

**Morning session: 8h30-13h30**

**PART II: The presentation of the INFIERI CONSORTIUM: S&T expertise, training & technical potential (cont'd)**

-- Chairperson : Stefano Petrucci --

- 8h30** Jim O'Reilly : "General introduction of Samsung and Samsung Advanced Institute of Technology"  
**9h00** Dave Newbold Department of Physics of University of Bristol (UK)  
**9h20** Joao Varela Laboratório Instrumentação e Física Experimental de Partículas (LIP), Lisboa (Pt)  
**9h40:** Fabrizio Palla & Riccardo Paoletti INFN-Sezione di Pisa (It)

**10h25**

**Morning Coffee break**

-- Chairperson : Philippe Bonnot --

- 10h45** James Hinton Department of Physics of University of Leicester (UK)  
**11h05** Robert Patti TEZZARON Semiconductor, Chicago, Ill., (USA)  
**11h30** Jose Maria Ortega SEDECAL, Preclinical Imaging Division, Madrid (Sp)  
**11h55** Stefano Petrucci & Alessandro Iovene CAEN, SpA, Viareggio (It)  
**12h20** Duccio Abbaneo European Center for Nuclear Research, CERN, Meyrin, (CH)

**13h05**

**LUNCH**

**Afternoon session: 14h00-18h10**

**PART III : The INFIERI Workpackages(WP's) including Intellectual Property issues**

-- Chairperson : Jan Visser --

- 14h00** F. Palla (Pisa) & G. Cotter (Oxford) : FEE data processing & reduction  
**14h30** F. Calmon (INSA) & A. Savoy-Navarro (CNRS): New Interconnect/Packaging Technos  
**15h00** E. Ciaramella (SSSA) & NIKHEF (tba) : Large Flux data transmission technologies  
**15h30** Ph. Bonnot & F. Lemonnier (TRT): Advanced Digital Processing

**16h00**

**Afternoon coffee break**

-- Chairperson : Tiehui Ted Liu --

- 16h20** WP's on : Transversal Tools (WP5) & Integration studies & Tests (WP6)  
*All partners are « lead beneficiary » of these two important workpackages which include a set of deliverables. The presentation of these two WP's, common/ transversal to all of us is organized as a Panel of experts, with a series of brief focused presentations :*  
- WP5: VDSM & the way to go (Foundries and associated design tools) R. Patti (tbc) & al.  
- WP6: Prototypes, Lab test bench and integration studies  
**16h50** TRAINING WP :  
1) presentation of the overall Training INFIERI Program (A. Savoy-Navarro),  
2) and a Panel of experts & Training topics on :i) microelectronics courses by RAL ; ii) organization of the 1st International INFIERI School by Oxford (G. Cotter) ; iii) Medical Training, example of Liverpool U (Tim Greenshaw) ; iv) Engineering courses (SSSA & EC-Lyon experts) ; v) Training young physicists in Instrumentation (D. Bortoletto, I. Shipsey et al.)  
**17h45** MariaAgnese Ciocci (Siena U.) OUTREACH WP and related issues for all partners  
**18h10** End of the second Day Workshop

**September 28, 2012**

**Morning session : 9 -12 am**

**9.00-10.25 am** *Backup session with some more discussions on the Workpackages and on the important Intellectual property issues and the way to go on this crucial topic especially in the case of our network*

**10h25** *Morning Coffee break*

**10.45 - 12 am** *Workplan for the next 5 coming months : presentation and discussion and AOB*

**12 am : First INFIERI Workshop's end**