Welcome to the SiPM matching event!

CERN, February 16 & 17, 2011

Organizing Committee:

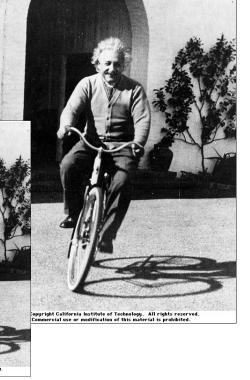
- Massimo Caccia
- Hartmut Hillemanss
- Lorenza Paolucci
- Emmanuelle Carrier











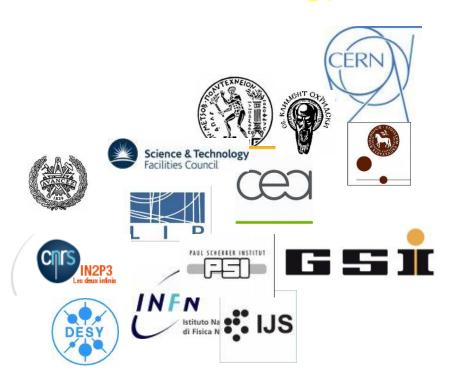
Powered by:





A quality label being proposed & refined by the

Technology Transfer Network



A cluster of TT Offices from ~15 institutions located in the CERN member states, driving pilot projects for enhancing the Knowledge & Technology Transfer process in HEP community

Council approved the creation of the TT Network in March 2008 Institution

Purpose:

- Establish a genuine partnership / collaboration amongst institutes active in Particle Physics in MS with a view to enhancing Technology Transfer activities
- Develop the image of the PP community as a source of knowledge that benefits society

Programme of work:

 3-year project to develop tools and methods in order to support a permanent operation

Institution	Country
CEA/IRFU	France
CERN	
CHALMERS	Sweden
Copenhagen University	Denmark
CNRS/IN2P3	France
DESY	Germany
EPFL	Switzerland
GSI	Germany
INFN	Italy
JSI Jožef Stefan Institute	Slovenia
PSI Paul Scherrer Institute	Switzerland
National Technical University of Athens	Greece
LIP	Portugal
STFC, Scientific & Technology Facilities Council	UK
University of Sofia	Bulgaria
CPAN	Spain

*TT Network members on February 2011, KFKI, Hungary observer status

Results

Intellectual Property charter

 The TT Network has adopted the IP Charter as framework for the execution of KTT activities.

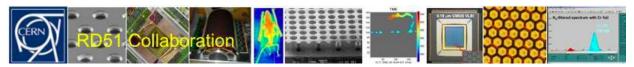


TT Network website heptech.org:

"HEP Tech: Leading edge technologies for industry, TT opportunities"

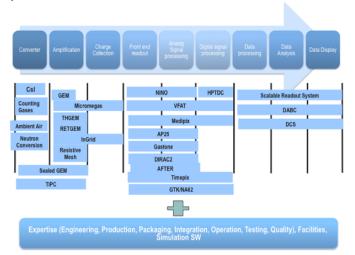
- PP Offer: Standard presentation of technologies and service capabilities
- R&D opportunities will come in a later stage
- Successful applications in research disciplines other than PP and in industry
- Trademark filing under evaluation, decision on December at next TT Network board meeting

Operation activities: MPGD



The RD51 collaboration on Micro Pattern Gas Detectors

- Mission: World-wide coordination of the research in the field to advance technological development of Micro Pattern Gas Detectors
 - RD-51 technology inventory consisting of information on the main technologies, expertise, production methods, test facilities and patents



- Classification of entries according to a conceptual gaseous detector
- User requirements elicitations for application devices in key domains
- Elaboration in collaboration with researcher of application device offers meeting user requirements and according to the conceptual gaseous detector layers

(*) Micro Pattern Gaseous Detectors

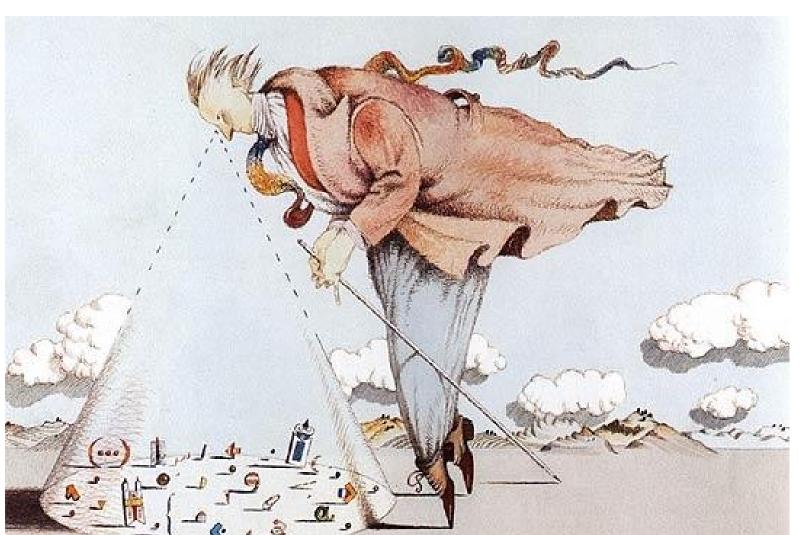
Operation activities: SiPM and related technologies

SiPM (Core technology delivered by industry, large PP expertise in systems)

- SiPM: Sensor manufactured by industry with unprecedented photon number resolving capability
- Turning SiPM into a real enabling technology requires:
 - Dedicated front-end electronics
 - Development of systems aspect
 - Data acquisition systems
- PP community pioneered the use of SiPM
 - Inventory of technologies and expertise available in the PP community
- Organisation of a workshop with PP experts, application domain users and High Tech companies (Original Equipment Manufacturers (OEM)) with a view to stimulating R&D projects



.... This is how we got started, about 1 year ago



perform an initial inventory of the ongoing developments in the

think hard about the market potential

thoughts with a bunch of well established industrial

rtnarc

And this is how we ended-up, TODAY:

a real MarketPlace



- ♦ but with:
 - 21 companies represented
 - ~ 130 REGISTERED people
 - booths for companies & R&D teams
 - and more...

Live shows are complemented by*:

- > Technology Offers (14, as of today)
- > CV's by post-docs and experienced researchers (4)
- > Job Offers (3)



*available on INDICO today, possibly moved to the heptech.org web site on a short timescale

Not all of the SiPM's were born equal...

.... and most of the sensor producers are represented here:



- ♦ CPTA-Advatech
- **♦ CSEM**
- ♦ Excelitas
- **♦ E2V**
- ♦ Ketek
- **♦ HAMAMATSU**
- ♦ PHILIPS Digital Counting
- **♦ PULSAR**
- ♦ SENSL
- ♦ STm
- **♦ ZEKOTEK**

Nicely complemented by end-users, OEM providers and more:



- **♦ AXINT**
- ♦ Bruker-AXS
- ♦ CAEN
- ♦ IDEAS-GammaMedica
- ♦ IDQuantique
- ♦ RAYTEST
- ♦ ATOSTEK
- **♦ KROMEK**
- ♦ DJH consulting

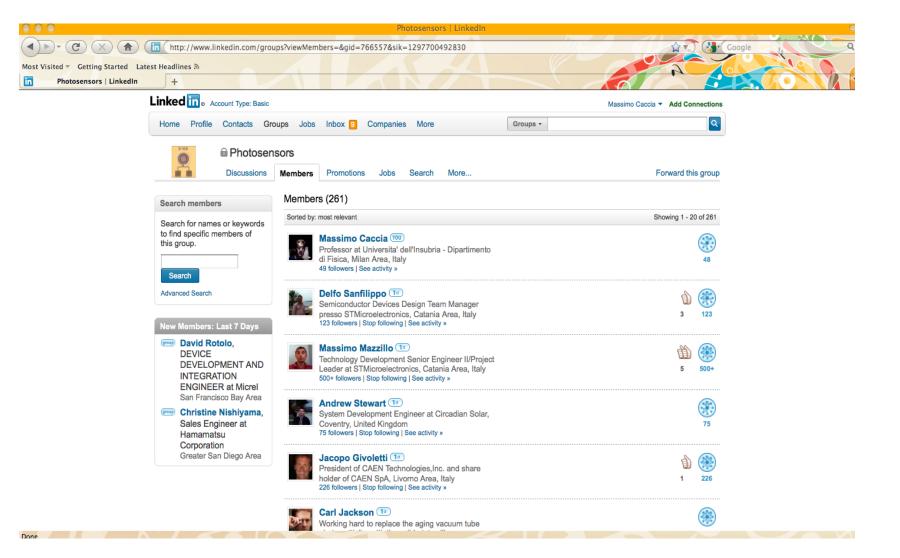


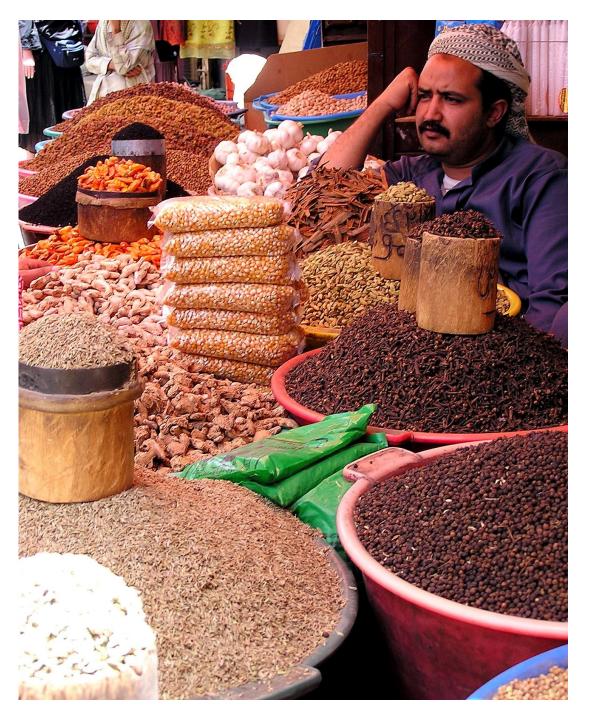
Goodbye, Boris!

- Professor of the Moscow Engineering Physics Institute,
- Doctor of Physical and Mathematical Sciences,
- Member of Academy of Natural Sciences,
- Honoured Scientist of the Russian Federation,
- Head of elementary particle physics department of MePHI
- Pioneer in the Development and use of SiPM

Boris Dolgoshein April 26, 1930 - December 14, 2010

don't miss the Link!





Enjoy the event!

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