

CERN

European Organization for Nuclear Research

Organisation Européenne pour la Recherche Nucléaire

## ACADEMIA INDUSTRY MATCHING EVENT (AIME) ON MPGD TECHNOLOGIES

*RD51 Collaboration Meeting, February 20, 2012*

*Hartmut Hillemanns, Renaud Gaglione,  
Catherine Adloff, Frederique Chollet*

# Context of the AIME

## *Various initiatives within the HEPTech MPGD pilot over the last 2 years:*

- Technology inventory (incl. patents, production methods, lab facilities)
  - Technology offer (individual and joint offers)
- Identification of potential application domains:
  - Large area detectors for n and gamma imaging in homeland security applications
  - Burning Plasma diagnostics (started)
  - High neutron fluxes (tbd)
  - Muon tomography (pre-industrial prototype, ongoing)
- Identification of opportunities for applied research projects
  - User requirements (mainly homeland security)
  - Identification of potential project partners
  - Project submissions (CLASP, FP7, CERN KT Fund, CTI)

## *Further examples*

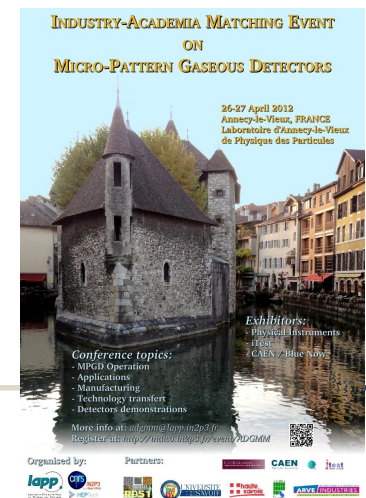
- Scalable Readout System SRS
- $^3\text{He}$  replacement

# Lessons learned in this initiative

- Building full commercial systems is unrealistic for HEP laboratories
- Seek public funding for demonstrator prototypes that “solve issues” in application domains:
  - Small and manageable projects (be aware of resource needs !!!)
  - Synergies with more experienced partners in the field
  - Gain expertise and credibility
  - Concentrate on the core competencies of HEPTech nodes
  - Network building
- Demonstrate production capabilities of key MPGD technologies at industrial scale (GEM, THGEM, MicroMegas, SRS)
- Enhance visibility and brand of MPGD technologies and expertise and its community through dedicated events:



## *Academia Industry Matching Event (AIME):*



# Event Description (1/2)

***Bringing together MPGD experts from academia, application domain users and high tech companies***

***Provide an overview on state-of-the-art MPGD technologies***

***Provide an overview on industrial partners potentially interested in collaborative R&D***

***Identify opportunities and define a roadmap towards collaborative R&D on key solutions for MPGD in different application domains***

**INDUSTRY-ACADEMIA MATCHING EVENT**  
**ON**  
**MICRO-PATTERN GASEOUS DETECTORS**

26-27 April 2012  
Annecy-le-Vieux, FRANCE  
Laboratoire d'Annecy-le-Vieux  
de Physique des Particules

**Exhibitors:**

- Physical Instruments
- iTest
- CAEN / Blue Now

**Conference topics:**

- MPGD Operation
- Applications
- Manufacturing
- Technology transfert
- Detectors demonstrations

More info at: [adgmm@lapp.in2p3.fr](mailto:adgmm@lapp.in2p3.fr)  
Register at: <http://indico.in2p3.fr/event/ADGMM>



# Event Description (2/2)

**Date:** April 26/27 2012, 9am – 4pm

**Venue:** Laboratoire d'Annecy-le-Vieux de Physique de Particules (LAPP, Annecy, FR)

## Program elements:

- state-of-the-art MPGD technologies
- Production methods
- Prospects of MPGD in applied research
- Demonstrators and booths
- Peer-to-peer discussions, social event,...

## More information:

- <http://indico.in2p3.fr/event/ADGMM>
- Mail: [adgmm@lapp.in2p3.fr](mailto:adgmm@lapp.in2p3.fr)

- Registration opens soon !!

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