nano SAFE '18

SIXTH NANOSAFE INTERNATIONAL CONFERENCE

ON HEALTH AND SAFETY ISSUES RELATED TO NANOMATERIALS FOR A SOCIALLY RESPONSIBLE APPROACH

We acknowledge our partners, sponsors and exhibitors

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WELCOME TO NANOSAFE 2018!

5th - 9th November, 2018

MINATEC, Grenoble - France

Pierre Jayet © CEA

FOLLOW THE NANOSAFE 2018 CONFERENCE NEWS

@NanoSafe2018

NanoSafe2018

Atomic & Alternative Energies, RTO

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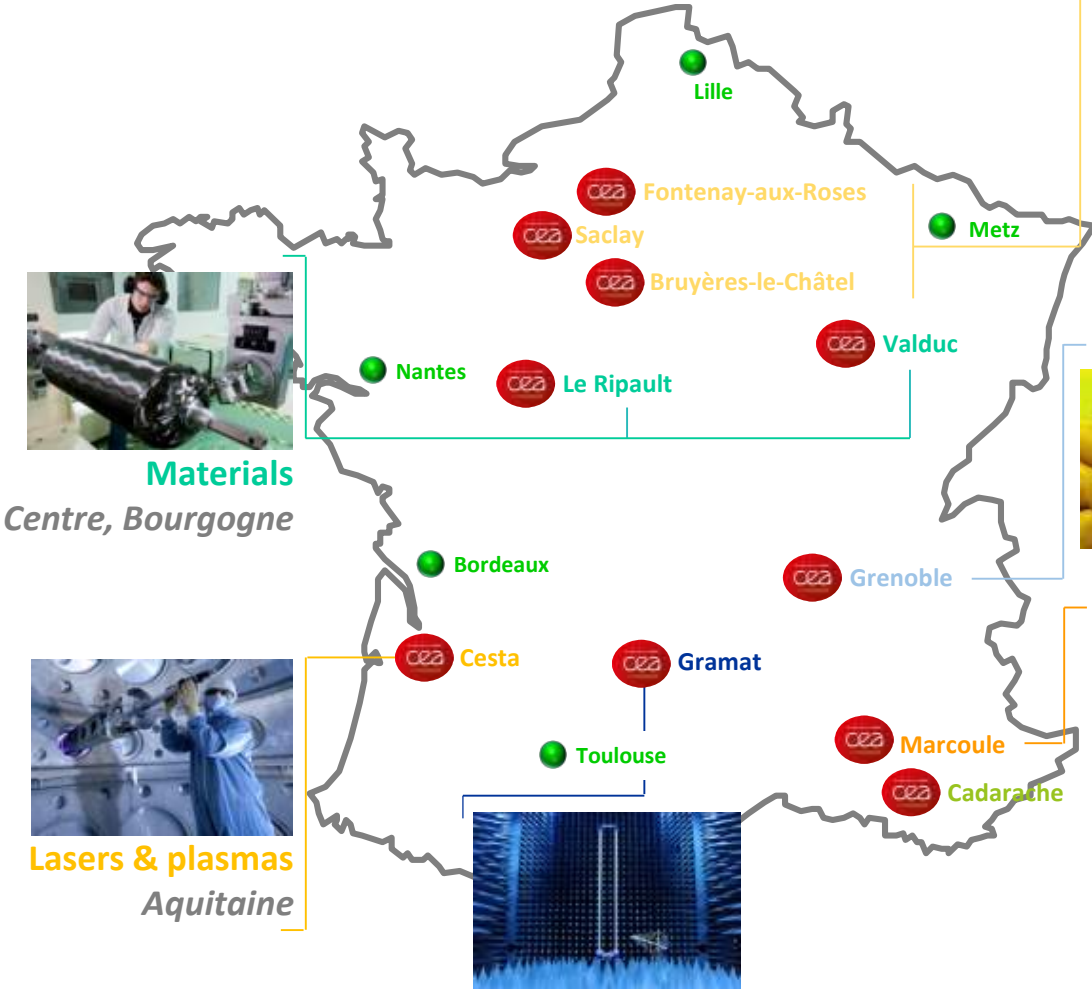
10 Research centers in France

4 Regional platforms of technology transfer



Materials

Centre, Bourgogne

Lasers & plasmas

Aquitaine

Vulnerability assessment
Detonics

Midi-Pyrénées

Physical sciences, software technologies
high performance computing, biomedicine

Ile-de-France

Micro-Nanotechnologies
Nanobiotechnologies
New technologies for energy

Rhône-Alpes

Nuclear :
Nuclear fuel cycle
and waste management

Vallée du Rhône

Nuclear :
Fusion, fission
Bioenergies, solar

Provence-Alpes-Côte-d'Azur

Key figures

- 16 000 Employees
- € 5 Billion budget
- 4 735 Scientific publications in 2016
- 1 556 PhD students, 293 post-doctoral researchers
- 5 200 Patent families
- 762 Delivered priority patents in 2016
- + 600 Industrial partnerships
- 141 Innovative technology start-ups created since 2000
- 424 Projects financed by Europe (2017)
- 64 Agreements with universities and research establishments
- 51 Joint research units
- 27 Competitiveness clusters
- 3 Idex, 33 Labex, 27 Equipex

A multidisciplinary approach to R&D: a virtous circle

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2005 - Grenoble / Chambéry

Staff 1 100 - 140M€

New energy technologies and nanomaterials

liten

list

Software-intensive systems

Staff 800 - 70 M€

2003 - Paris Sud

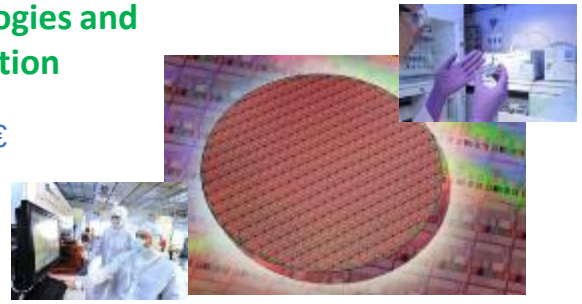
cea tech

leti

Micro-nanotechnologies and system integration

Staff 1 800 - 240 M€

1967 - Grenoble



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NanoSafety Platform (PNS):

R&D and Services in Nanosafety for industrials

- Detection, identification and characterization of nano-objects
- Development of tools and devices to collect airborne particles
- Assessment of particle release, emission and exposure
- Safe-by-design approaches for products and processes
- Biomonitoring, medical and biological consulting
- Incident and emergency response
- Consulting, training and certification

50 PhD + engineers

€17.3 million invested

2,000 sq. m of lab space
7 classrooms

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nanoSAFE'08
3 - 7 November / Minatec - France

nanoSAFE'10
16-18 November / Minatec - France

nanoSAFE'12
13-15 November / Minatec - France

nanoSAFE'14

nanoSAFE'16

Since 2008, 10 years have passed with already 6 editions of NanoSAFE !

Pierre Jayet © CEA

Special thanks to François Tardif who paved the way …

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- 255 + 85 attendees from more than 29 countries
- 137 accepted oral presentations
- 63 accepted posters
- 9 exhibitors
- 6 Satellite meetings
- 2 Round tables:
  - Act on ultra fine particles and urban pollution in Europe
  - No nano in our plates: will the French ban on E171 emulate in the EU?
- 1 Workshop: Safety aspects in pilot lines, an EPPN – NSC i2L joint session

1-Measurement and characterization of nano objects
2-Exposure
3-Manufactured nano objects
  3.1- Nano-objects release from nano-enabled products
  3.2- Safe-by-design nano-enabled products and processes
  3.3- Pilot plant production / Industrial issues
4-Risks
  4.1- Occupational risk assessment
  4.2- Environmental risk assessment
  4.3- Tools and commercial equipment
  4.4- Risk management
  4.5- Nano responsible development and sustainability
5-Nano objects and Health / Hazard
  5.1-Toxicology
  5.2-Environmental interactions of nanomaterials
  5.3-Safe use of nano objects for medicine applications
6-Regulation / Standardization
7- Urban particles and emerging pollutants

PRACTICAL INFORMATION

Oral Presentations:

- ❑ Presentations have to be uploaded at the conference room computer 10 min before each session
- ❑ Presentations will be available at the end of the conference at www.nanosafe.org

➡ ***Please remove any confidential items***

Poster Sessions:

- ❑ In parallel with coffee breaks on Tuesday 6th, Wednesday 7th and Thursday 8th
- ❑ Poster set-up: Today during lunch break
- ❑ Poster removal: Friday 9th during coffee break

Full papers:

- ❑ Publication at the open access Journal of Physics: Conference Series - IOP Science
- ❑ Please register at the welcome desk each day during coffee breaks and lunch breaks
- ❑ Deadline to submit manuscript : 3rd of December
- ❑ Contact: nanosafe2018@cea.fr

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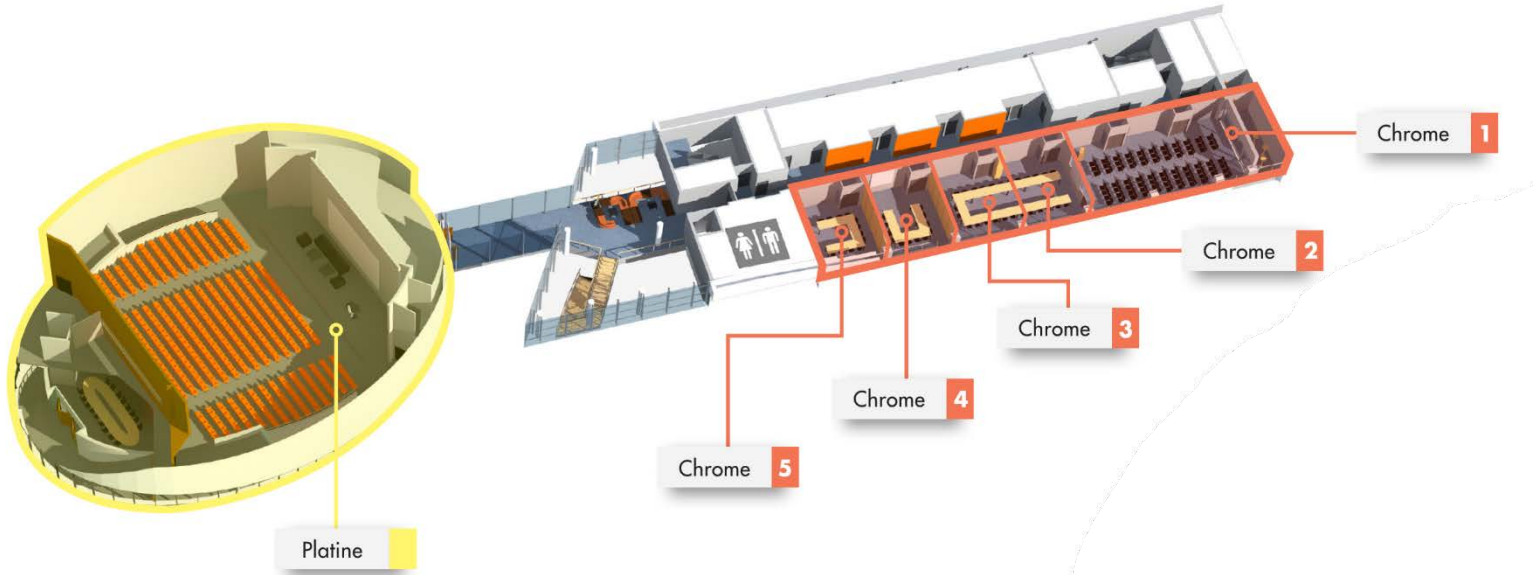
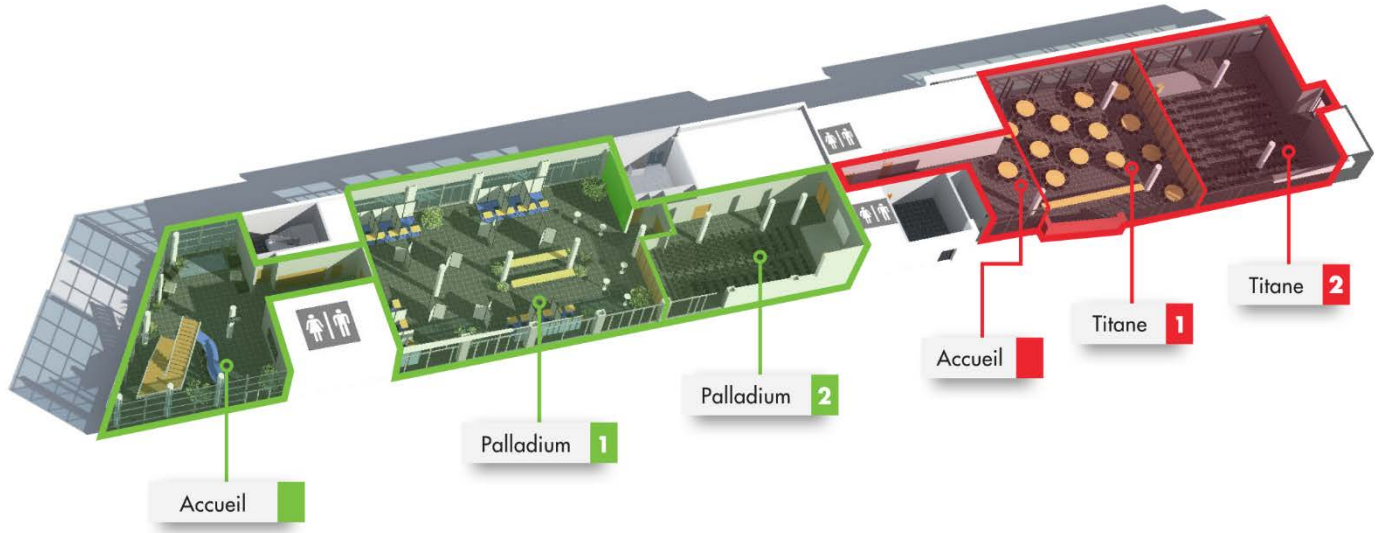
PRACTICAL INFORMATION





Poster Sessions:

- ❑ Palladium 1 & 2

Exhibitors:

- ❑ Titane 1 & 2

Lunches and coffee breaks:

- ❑ Titane 1 & 2

For any enquiry:

- ❑ Main entrance desk
- ❑ Supervisor of the conference room
- ❑ Stephane Boivin & Patricia Chery

CHÂTEAU DE SASSENAGE

Gala Dinner:

- ❑ Thursday, 8th at the Château de Sassenage
  Allée du château – 38360 Sassenage
- ❑ Meeting point in front of Minatec
- ❑ Shuttle bus departure at 18:30
- ❑ Arrival at the Château de Sassenage at 18:45
- ❑ Access information available in the programme p56
- ❑ Travel back to Grenoble Central Train Station at 22:30 and 23:30

Conference Prizes

- ❑ Best poster award ceremony during the Gala Dinner on Thursday 8th
- ❑ Best student presentation award during the closure ceremony on Friday 9th

NanoID

Serenade
Safe(r) Ecodesign Research and Education applied to nAnomaterial DEvelopment.

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OPENING SESSION – Chairman: Dr Simon Clavaguera

08:30 – 08:45 Welcome & Practical Information

08:45 – 09:15 **Nanopharmaceuticals vs engineered nanomaterials: war and peace**

Patrick Boisseau, CEA, France

09:15 – 09:45 **The nanosciences foundation in grenoble: its achievements**

Alain Fontaine, Nanosciences Foundation, France

09:45 – 10:15 **Developing a framework to support streamlined risk assessment of nanomaterials via facilitation of grouping and read-across**

Teresa Fernandes, Heriot-Watt University, UK

10:45 – 11:15 **EU nanosafety research perspectives under H2020 and Beyond**

Georgios Katalagarianakis, European Commission, Belgium

11:15 – 11:45 **Particle-induced cardiovascular disease mediated by acute phase response**

Ulla Birgitte Vogel, NRCWE, Denmark

18:00 Welcome Cocktail