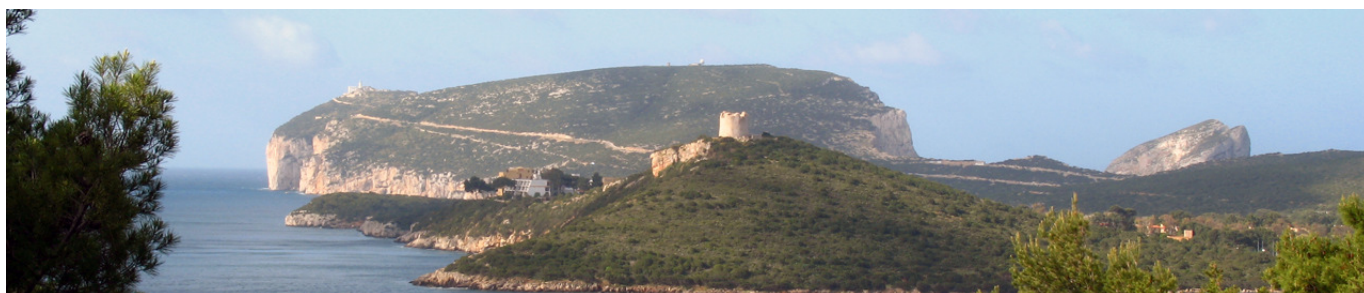


## ISGS - SUMMER SCHOOL 2008

### SOL-GEL IN SMALL DIMENSIONS: NANOPARTICLES AND THIN FILMS

August 24-27, 2008  
Alghero (Sardinia), Italy.



#### Speakers:

1. **Masahide Takahashi** (University of Kyoto, Japan), Patterning technology for sol-gel films
2. **Michel Aegerter** (ISGS), Technologies for deposition of thin films on glass and plastic substrates - technical challenges and new opportunities
3. **David Avnir** (Hebrew University of Jerusalem, Israel), Sol-gel materials in small dimensions: functionality in pores, particles, and thin films
4. **Plinio Innocenzi** (University of Sassari, Italy), Infrared spectroscopy, chemical imaging for characterization of sol-gel films
5. **Galo Soler-Illia** (CNEA, Buenos Aires, Argentina), Self-assembled mesoporous films and mesoporous nanoparticles; coupling sol-gel and self assembly to obtain organized matter, mesoporous thin films: production, formation and prospective applications.
6. **Chris Barbé** (ANSTO, Australia), Synthesis and characterisation of Sol-Gel nanoparticles
7. **Anna Corrias** (University of Cagliari, Italy), Iron based nanocomposites from sol-gel and their characterization
8. **Hiromitsu Kozuka** (University of Kansai, Japan), Crack formation and stress evolution in sol-gel coatings

## Final registration

**Registration fees** (including lodging, meals, banquet and ISGS membership)

- 500 € for students,
- 700 € for academic researchers,
- 1000 € for industrial researchers.

**How to pay.** Payment of the registration fee should be done within 30<sup>th</sup> June via bank transfer to the following account:

Bank: BANCA CARIGE, (Agency 378 Milano, via Silva n.28)

account number: 112780, account name: Lea Nanotech

IBAN code: IT18Z0617501608000000112780

ABI 6175, CAB 1608, CIN Z

BIC CODE: CRGEITGG378

Please add the following reason of payment: Name, Family name, Inscription to ISGS Summer School 2008

Copy of the payment receipt must be sent via e-mail (scan pdf) to [plinio.innocenzi@uniss.it](mailto:plinio.innocenzi@uniss.it) or fax: +39-079-9720420.

## Scholarships

The International Sol-Gel Society will award 5 scholarships of 500 Euros each to attend the summer school. The scholarship is reserved to PhD students. Application form should be sent to [plinio.innocenzi@uniss.it](mailto:plinio.innocenzi@uniss.it) and [florence.babonneau@upmc.fr](mailto:florence.babonneau@upmc.fr) within the 31<sup>st</sup> may. Notification of the results will be announced by the 15<sup>th</sup> June, 2008.

## Location

**Porto Conte Ricerche**, S.P. 55 Porto Conte/Capo Caccia, Km 8.400 Loc. Tramariglio, 07041 Alghero (SS) (<http://www.portocontericerche.it>). Porto Conte is around 15 km far from Alghero and from the airport.

Porto Conte Ricerche is a science park that is located in the regional natural park of Porto Conte, Capo Caccia. The school and lodging will be within the science park.

## How to reach the place

The airport ([www.aeroportodialghero.it](http://www.aeroportodialghero.it)) is approximately 9 km far from Alghero and it is connected to the city with a bus or through Taxi (Telephone +39 079 935 035, Alghero City, Telephone +39 079 989 20 28).

Car rental is available at the airport with several companies, book in advance is strongly recommended if you select this option.

Bus from Alghero to Porto Conte Ricerche is available three times a day, the bus will stop just in front of the Science Park.

More details and some travelling tips are available at the laboratory web site:  
<http://lmnt.uniss.it>

## **SCHOOL PROGRAM**

### *Sunday 24<sup>th</sup> August*

20.00, Welcome party at Porto Conte

### *Monday 25<sup>th</sup> August*

9.00 – 9.15 School opening  
9.15 – 10.00 Chris Barbè (Introduction to sol-gel science)  
10.00 – 11.00 David Avnir (sol-gel in small dimensions)  
11.00 – 11.15 Coffee break  
11.15 – 12.15 David Avnir (sol-gel in small dimensions)  
12.15 – 13.15 Chris Barbè (sol-gel nanoparticles)

13.15 - 14.30 Lunch

16.00 – 17.00 Masahide Takahashi (patterning technologies)  
17.00 – 17.15 Coffee break  
17.15 – 18.15 Chris Barbè (sol-gel nanoparticles)  
18.15 – 19.15 Anna Corrias (iron based nanocomposites)  
20.00 – 21.00 Dinner at Porto Conte

21.00 – 22.30 Night science drink

### *Tuesday 26<sup>th</sup> August*

9.00 - 10.30 Galo Soler-Illia (mesoporous materials)  
10.30 – 11.30 Chris Barbè (sol-gel nanoparticles)  
11.30 – 11.45 Coffee break  
11.30 – 13.00 Michel Aegerter (sol-gel thin films)

13.00 - 14.00 Lunch

16.00 – 17.00 Michel Aegerter (sol-gel thin films)  
17.00 – 17.15 Coffee break  
17.15 – 18.15 Masahide Takahashi (patterning technologies)  
18.15 – 19.15 Anna Corrias (Iron based nanocomposites)

20.00 – 21.00 Dinner at the beach in Alghero

23.00 Bus transfer to Porto Conte

### *Wednesday 27<sup>th</sup> August*

9.00 - 10.00 Galo Soler-Illia (mesoporous materials)  
10.00 – 11.30 Hiromitsu Kozuka (crack and stress in sol-gel films)  
11.30 – 11.45 Coffee break  
11.30 – 13.00 Plinio Innocenzi (infrared imaging for sol-gel film characterization)  
13.00 – 13.15 Closing of the school

13.30 - 14.30 Lunch

15.00 Bus transfer to the Airport and to Alghero

## Teaching support materials

A CD with all the lessons will be available.

## Sponsorships



LEA NANOTECH s.r.l.  
Località Mariabella n°7  
Casella Postale 55  
07040 Fertilia (SS)  
P.I. 022899540904  
Tel. 079/998441 - 3293154202



## Local organizing committee

Plinio Innocenzi  
Gianfranco Greppi  
Luca Malfatti  
Tongjit Kidchob  
Stefania Mura  
Barbara Ajroldi