



iSSCG18

18th International Summer School
on Crystal Growth

23-29 July 2023 – Parma (ITALY)

The School will be organised in Parma, the Italian Capital of Culture 2020-21, as an in-person event, after the change of date imposed by the pandemic emergency. The Campus of Science and Technology of Parma University has been chosen to host this event. A friendly and stimulating environment will facilitate discussions and new contacts between lecturers and participants.



<https://isscg-18.unipr.it>
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We are pleased to invite you to participate in the 18th International Summer School on Crystal Growth that will be held in Parma, Italy, during July 23-29, 2023 in conjunction with 20th International Conference on Crystal Growth and Epitaxy in Naples, July 30-August 4, 2023.

Parma is located in the region Emilia-Romagna, approximately 1 hour from Bologna and 1.5 hour from Milan by train. Both cities have international airports with many direct intercontinental connections. Parma also has an airport, mostly for domestic destinations and few international flights.

The School's programme will include lectures covering theoretical and experimental aspects of the growth and characterization of different types of crystalline materials, in form of single crystals, thin films and nanocrystals. Leading experts will lead participants into the fascinating world of "crystal fabrication", providing an overview of recent advancements and updated concepts.

The format of the school is designed to encourage interaction between lecturers and attendees, with informal discussions at coffee breaks, meals and social events. Special sessions will be organised to give participants the opportunity to present their own work and discuss it with peers.

Preliminary Programme: Fundamentals of Crystal Growth

- Thermodynamic aspects
- Kinetic Aspects
- Modelling and simulation of growth processes
- Tailoring/elimination of crystallographic defects

Crystal Growth Technology

- Methods for growing bulk crystals and thin layers
- Nanocrystals
- Biocrystallization

Study cases

- Curiosity-driven and technologically-important crystal growth experiments

Co-chairs:

Roberto Fornari, University of Parma
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Local Organising Committee:

Davide Calestani, IMEM-CNR, Parma
Elena Del Canale, University of Parma
Piero Mazzolini, University of Parma

Venue

ISSCG-18 will take place in the auditorium of the Campus of Science and Technology of Parma University. The Campus is located in the southern bound of the city and well connected to downtown and railway station by two bus lines.

A visit to laboratories for crystal growth and epitaxy of CNR-IMEM institute is planned in the course of the summer school.



Information about city and venue:

<https://www.parmawelcome.it/en/home/discover-parma/>
<https://emiliaromagnaturismo.it/en>
<https://www.italia.it/en/parma>
<https://en.unipr.it/>
<https://www.imem.cnr.it/en/node>