



icCGE20

International Conference on Crystal Growth and Epitaxy

30 July - 4 August 2023, Naples (Italy)



UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II - DIPARTIMENTO DI
FISICA "ETTORE PANCINI"

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Andrea Zappettini, IMEM-CNR, Parma, Italy

Conference Program Chairs

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PROGRAM AT A GLANCE

TIME	Mon, 31 Jul	Tue, 1 Aug	Wed, 2 Aug	Thu, 3 Aug	Fri, 4 Aug
08:45-09:00	Opening				
09:00-09:45	Frank Prize	Plenary Lecture	Plenary Lecture	Plenary Lecture	Plenary Lecture
09:45-11:00	Parallel sessions	Parallel sessions	Parallel sessions	Parallel sessions	Parallel sessions
11:00-11:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:30-12:45	Parallel sessions	Parallel sessions	Parallel sessions	Parallel sessions	Parallel sessions
12:45-14:00	Lunch	Lunch	Lunch	Lunch	Closing
13:50-14:00		Industrial talk	Excursions	Industrial talk	
14:00-14:45	Frank Prize	Laudise Prize		Schieber Prize	
14:45-16:00	Parallel sessions	Parallel sessions		IOCG General Assembly	
16:00-16:30	Coffee break	Coffee break		Coffee break	
16:30-18:30	Poster session-01	Poster session-02		Poster session-03	

MONDAY 31 JULY

MONDAY 31 JULY	
08:45 - 09:00	Aula Magna Opening Address
09:00 - 09:45	Aula Magna Frank Prize Molecular mechanisms to control crystal nucleation, <i>Peter Vekilov</i>
09:45 - 11:00	Parallel sessions
	Aula Magna Fundamentals of nucleation and crystal growth-01
	SG-T-1 Growth at the nanoscale: nanocrystals, nanowires, nanomaterials-01
	SG-T-2 Bulk crystal growth-01
	SG-I-1 Optical crystals-01
	SG-I-2 New methods and techniques for crystal growth-01
	SG-II-1 Functional crystals-01
	SG-II-2 Advances in observation and characterization methods-01
11:00 - 11:30	Coffee break
11:30 - 12:45	Parallel sessions
	Aula Magna Fundamentals of nucleation and crystal growth-02
	SG-T-1 Modelling and artificial intelligence of crystal growth processes-01
	SG-T-2 Bulk crystal growth-02
	SG-I-1 Optical crystals-02
	SG-I-2 New methods and techniques for crystal growth-02
	SG-II-1 Functional crystals-02
	SG-II-2 Advances in observation and characterization methods-02
12:45 - 14:00	SG-I-1 IOCG Executive Committee Meeting
12:45 - 14:00	Lunch
14:00 - 14:45	Aula Magna Frank Prize <i>Juan M. Garcia-Ruiz</i>
14:45 - 16:00	Parallel sessions
	Aula Magna Fundamentals of nucleation and crystal growth-03
	SG-T-1 Modelling and artificial intelligence of crystal growth processes-02
	SG-T-2 Bulk crystal growth-03
	SG-I-1 Optical crystals-03
	SG-I-2 New methods and techniques for crystal growth-03
	SG-II-1 Functional crystals-03
	SG-II-2 Structural defects and impurities in crystalline materials-01
16:00 - 16:30	Coffee break
16:30 - 18:30	Poster session-01

TUESDAY 1 AUGUST

09:00 - 09:45	Aula Magna	Plenary Lecture From Unraveling Crystal Growth Strategies in Nature to Their Implementation in Synthetic Systems, <i>Boaz Pokroy</i>
09:45 - 11:00	Parallel sessions	
	Aula Magna	Fundamentals of nucleation and crystal growth-04
	SG-T-1	Modelling and artificial intelligence of crystal growth processes-03
	SG-T-2	Bulk crystal growth-04
	SG-I-1	Thin films and epitaxial growth-01
	SG-I-2	Crystalline solids for drugs and pharmaceuticals-01
	SG-II-1	Optical crystals-04
	SG-II-2	Functional crystals-04
11:00 - 11:30	Coffee break	
11:30 - 12:45	Parallel sessions	
	Aula Magna	Fundamentals of nucleation and crystal growth-05
	SG-T-1	Modelling and artificial intelligence of crystal growth processes-04
	SG-T-2	Bulk crystal growth-05
	SG-I-1	Crystallization of organic and biological systems-01
	SG-I-2	Composite and hybrid crystals-01
	SG-II-1	Optical crystals-05
	SG-II-2	Functional crystals-05
12:45 - 14:00	SG-I-1	IOCG Council Meeting
12:45 - 14:00	Lunch	
13:50 - 14:00	Aula Magna	Industrial talk: Semiconductor Technology Research d.o.o. Beograd
14:00 - 14:45	Aula Magna	Laudise Prize Contributions to the development of crystal growth technologies, <i>Peter Rudolph</i>
14:45 - 16:00	Parallel sessions	
	Aula Magna	Fundamentals of nucleation and crystal growth-06
	SG-T-1	Thin films and epitaxial growth-02
	SG-T-2	Bulk crystal growth-06
	SG-I-1	Crystallization of organic and biological systems-02
	SG-I-2	Composite and hybrid crystals-02
	SG-II-1	Optical crystals-06
	SG-II-2	Crystals for photovoltaics and green energy-01
16:00 - 16:30	Coffee break	
16:30 - 18:30	Poster session-02	

WEDNESDAY 2 AUGUST

09:00 - 09:45	Aula Magna Plenary Lecture 20 years crystal growth of solar silicon: my serendipity journey, <i>Chung-wen Lan</i>
09:45 - 11:00	Parallel sessions Aula Magna Fundamentals of nucleation and crystal growth-07 SG-T-1 Bulk crystal growth-07 SG-T-2 Crystallization of organic and biological systems-03 SG-I-1 Semiconductors-01 SG-I-2 2D Materials-01 SG-II-1 Optical crystals-07 SG-II-2 Topological quantum materials-01
11:00 - 11:30	Coffee break
11:30 - 12:45	Parallel sessions Aula Magna Fundamentals of nucleation and crystal growth-08 SG-T-1 Thin films and epitaxial growth-03 SG-T-2 Bulk crystal growth-08 SG-I-1 Semiconductors-02 SG-I-2 2D Materials-02 SG-II-1 Crystals for photovoltaics and green energy-02 SG-II-2 Topological quantum materials-02
12:45 - 14:00	Lunch

Coaches for excursions will leave at 13:30 from the conference venue

Booked participants are kindly requested to reach the coaches parking at 13:30 sharp

THURSDAY 3 AUGUST

09:00 - 09:45	Aula Magna	Plenary Lecture Selective area epitaxy for next generation quantum computing and photovoltaics, <i>Anna Fontcuberta i Morral</i>
09:45 - 11:00	Parallel sessions	
	Aula Magna	Fundamentals of nucleation and crystal growth-09
	SG-T-1	Thin films and epitaxial growth-04
	SG-T-2	Bulk crystal growth-09
	SG-I-1	Semiconductors-03
	SG-I-2	2D Materials-03
	SG-II-1	Surfaces and Interfaces-01
	SG-II-2	Growth at the nanoscale: nanocrystals, nanowires, nanomaterials-02
11:00 - 11:30	Coffee break	
11:30 - 12:45	Parallel sessions	
	Aula Magna	Bulk crystal growth-10
	SG-T-1	Topological quantum materials-03
	SG-T-2	Thin films and epitaxial growth-05
	SG-I-1	Semiconductors-04
	SG-I-2	2D Materials-04
	SG-II-1	Surfaces and Interfaces-02
	SG-II-2	Growth at the nanoscale: nanocrystals, nanowires, nanomaterials-03
12:45 - 14:00	Lunch	
13:00 - 14:30	SG-I-1	ENCG Council Meeting
13:50 - 14:00	Aula Magna	Industrial talk: Photonic Science and Engineering
14:00 - 14:45	Aula Magna	Schieber Prize <i>Bharat Jalan</i>
14:45 - 16:00	Aula Magna	IOCG General Assembly
16:00 - 17:00	SG-I-1	IOCG Executive Committee Meeting
16:00 - 16:30	Coffee break	
16:30 - 18:30	Poster session-03	

Conference dinner

Transfers will leave from the conference venue at the end of the poster session

FRIDAY 4 AUGUST

09:00 - 09:45	Aula Magna	Plenary Lecture Oxide interfaces: a versatile platform for material design and ultrafast light control, <i>Andrea Caviglia</i>
09:45 - 11:00	Parallel sessions	
	Aula Magna	Thin films and epitaxial growth-06
	SG-T-1	2D Materials-05
	SG-T-2	Growth at the nanoscale: nanocrystals, nanowires, nanomaterials-04
	SG-I-1	Semiconductors-05
	SG-I-2	Structural defects and impurities in crystalline materials-02
11:00 - 11:30	Coffee break	
11:30 - 12:45	Parallel sessions	
	Aula Magna	Thin films and epitaxial growth-07
	SG-T-1	2D Materials-06
	SG-T-2	Growth at the nanoscale: nanocrystals, nanowires, nanomaterials-05
	SG-I-1	Industrial crystal growth technology and equipment-01
	SG-I-2	Structural defects and impurities in crystalline materials-03
12:45 - 13:00	Aula Magna	Closing Remarks

GENERAL INFORMATION

Registration desk opening times

		Location
30 July	17:30 - 20:00	Santa Maria La Nova
31 July	08:00 - 18:30	University Campus
1 August	08:30 - 18:30	San Giovanni a Teduccio
2 August	08:30 - 14:00	
3 August	08:30 - 18:30	
4 August	08:30 - 13:00	

Interactive programme

The interactive programme of the conference can be accessed either by scanning the QR code below or by consulting the conference website



www.iccge20.org

Use the Interactive Programme to browse the detailed programme of each session, bookmark the sessions of interest, open each presentation to view and download the abstracts in PDF.

Wi-Fi

The Eduroam network is available on the Campus.

Wi-Fi is also available as follows:

NETWORK	ICCGE-20
PASSWORD	xs4ICCGE

Certificate of attendance

Certificate of attendance will be available for download on your personal page on the conference platform after the event.

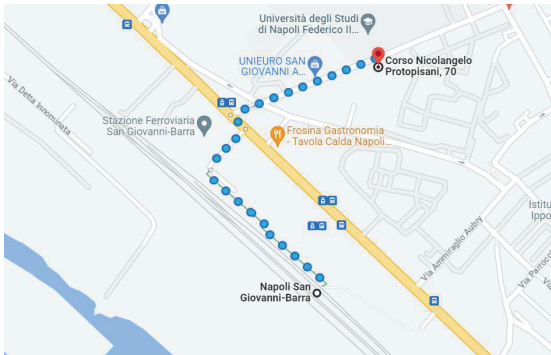
HOW TO REACH THE VENUE

University Campus

Complesso universitario di San Giovanni a Teduccio

Corso Nicolangelo Protopisani 70, Naples

Public transport



The venue is within walking distance of:

- Metro station Linea 2 – Stop: San Giovanni Barra
- Circumvesuviana train – Stop: Ferrante Imparato
- Tram number 4 – Stop: Corso San Giovanni a Teduccio

Transportation to the venue

Transfers to/from the venue have been organized. A member of the organization will meet participants at the meeting points. Transfers will function on a first come first served basis subject to availability.

Timetable

Departures from the **City centre*** (meeting point: Piazza Matteotti, corner Via Diaz and Via Guantai Nuovi) and **Piazza Garibaldi#** (meeting point: in front of the entrance of the Hotel Terminus).

7:40 (Mon 31 July only)	8:00	8:20	8:40 (Not on Mon 31 July)
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Return to the City Center and Piazza Garibaldi.

13:00-13:30 (Wed 2 August and Fri 4 August only)	16:30	18:30
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*Nearest public transport metro Linea 1 stop Toledo; #Nearest public transport metro Linea 1 and 2 stop Piazza Garibaldi

INFORMATION FOR PRESENTERS

Slide centre

Presenters are requested to deliver their slides at the **slide centre** located on the 2nd floor of the venue at least 30 minutes before the beginning of their session.

Slides should be in a 16:9 format. PowerPoint and PDF files are accepted. If your presentation has special features (e.g., videos, etc.), please preview the slides and advise the slide centre at least two hours before the start of your session.

Poster sessions

Posters must be displayed on the day of the session in the space marked with the number assigned to your poster and must be removed at the end of the session. Check your personal “welcome page” on the Conference Platform to visualize your poster number (“presentation ID”) and the session you are assigned to.

Presenters are invited to stand by their poster(s) during the poster session.

Poster session-01

Monday 31 July, 16:30 – 18:30

Poster session-02

Tuesday 1 August, 16:30 – 18:30

Poster session-03

Thursday 3 August, 16:30 – 18:30

PHOTO CONTEST

Photos are displayed on the third floor. Participants are encouraged to vote for a photo in each of the following three categories.

1. Natural untouched micrographs or photographs
2. Photographs including digital manipulation (and computational simulations)
3. Best student entry

Reach out to the staff in the poster area to place your vote. Winners will be announced during the Closing Ceremony of the Conference.

WELCOME COCKTAIL

July 30th @18:30

Santa Maria la Nova

Piazza Santa Maria la Nova 44, Historic Centre of Naples
Metro linea 1, stop Piazza Dante, Metro linea 2, stop Montesanto
The Registration Desk is open from 17:30 to 20:00.

EXCURSIONS

August 2nd @13:30

Transfers to tour destinations will leave from the conference venue at 13:30.

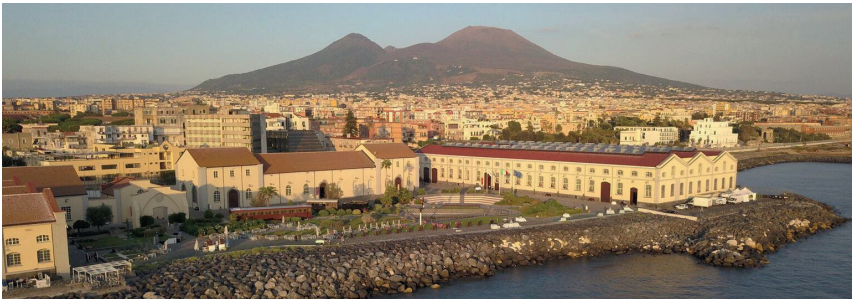
Excursions are open only to participants who have purchased a ticket.

CONFERENCE DINNER

August 3rd @19:30

National Railway Museum of Pietrarsa

Via Pietrarsa, Naples



Transport to the dinner will leave from the conference venue at the end of the poster session, and return to Piazza Garibaldi and City Centre after the dinner.

The dinner is open only to participants who have purchased a ticket.

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