

GRAPHENE

25-29 SEPTEMBER 2017, ATHENS, GREECE

WEEK

PROGRAMME

Commissioned and organised by



GRAPHENE FLAGSHIP

WELCOME

On behalf of the conference organising committee, of Graphene Flagship and of the local host-FORTH/ICE-HT- it is my pleasure to welcome you all to GW2017. Our motto for the GW2017 is that “the future meets the past” at the cradle of western civilization, the city of Athens. Indeed, the technological advances envisaged by the use of graphene and other 2D materials may have an equal (or even greater) impact on future technologies than the achievements in science, culture and technology of 5th century BC Athens.

To demonstrate this we have put together an exciting programme of 6 keynote speakers and around 40 invited contributions, 143 oral and over 270 poster presentations. They all convey to you a quite simple message: that new scientific discoveries are rapidly leading to a multitude of applications in the fields of optoelectronics, biotechnology, composite materials and renewable energy, to name just a few. Indeed, a new renaissance dawns upon us, enabled and fostered by the amazing properties of 2D materials.

The conference is not just about exciting talks; important not-to-be-missed social events are the welcome reception organized at the Acropolis museum and the banquet at the Zappeion peristylon (another important Athenian landmark). In addition to the social events, there will be four fringe sessions, the Women-in-Graphene meeting and the Graphene Connect activity. In short the Graphene Week 2017 in Athens is expected to be a truly buzzing conference in a notoriously buzzing city. At the moment approximately 550 participants from 41 countries have been registered to share with us this unique event.

Thank you all for coming to Athens!

Yours sincerely,

Costas Galiotis

Foundation for Research and Technology - Hellas (FORTH)
Conference Chair 2017



GRAPHENE FLAGSHIP



FORTH

INSTITUTE OF CHEMICAL ENGINEERING SCIENCES



Funded by
the European Union

SUNDAY 24 SEPTEMBER

14:00–19:00

REGISTRATION - ILISSOS FOYER

GRAPHENE

WEEK

MONDAY 25 SEPTEMBER

07:30–17:00

REGISTRATION AND HELPDESK - ILISSOS FOYER

10:00–18:30

EXHIBITION - OLYMPIA FOYER

09:00–12:55

OPENING CEREMONY AND PLENARY SESSION - OLYMPIA HALL

09:00–09:35

Costas Galiotis, Conference Chair
Thomas Skordas, Director for Digital Excellence and Science Infrastructure, European Commission
Costas Fotakis, Greek Minister for Research & Innovation
Vincenzo Palermo, Vice-Director of the Graphene Flagship

09:40–10:15

Konstantin Novoselov, The University of Manchester

10:15–10:35

COFFEE BREAK - OLYMPIA FOYER

10:35–11:10

Kim Sang Ouk, KAIST - Korea Advanced Institute of Science & Technology

11:10–11:45

Harold Zandvliet, University of Twente

11:45–12:20

Jong-Hyun Ahn, Yonsei University

12:20–12:55

Rahul Raveendran-Nair, The University of Manchester

12:55–15:00

LUNCH - AMALIA AND OLYMPIA FOYER

OPEN FORUM - ILISSOS

14:00–15:00

15:00–18:00

PARALLEL I
Fundamental
Science of
graphene/2DM
and their hetero-
structures
OLYMPIA A

PARALLEL II
Electronics, opto-
electronics and
photonics using
graphene and
other 2DM
OLYMPIA B

PARALLEL III
Nanocompos-
ites based on
graphene and
other 2DM
VERGINA

PARALLEL IV
Synthesis and
functionalisation
of graphene and
other 2DM
PELLA

INNOVATION
FORUM I
Roadmap
ILISSOS

15:00–15:20

M. Ben Shalom

P. Alon-
so-González

Y. Samad

V. Palermo

T. Reiss

15:20–15:40

M. Bockrath

M. Thompson

G. Guidetti

G. Bacher

15:40–16:00

T. Kazimierczuk

D. Kara

I. Gago

J. A. Martin-
Gago

M. Bohm

16:00–16:20

P. Makk

M. Feierabend

K. Gaska

N. Balakrishnan

A. Jara

16:20–16:40

COFFEE BREAK - OLYMPIA FOYER

16:40–17:00

I. Demeridou

A. Kozikov

C. Kostagianna-
kopoulou

B. Bekdüz

F. Tubertini

17:00–17:20

T. Elo

H. Chul Park

P. Ghosh

C. Bartlam

K. Hjelt

17:20–17:40

P. Michalowski

S. Riazimehr

D. P. O'Driscoll

D. Chronopoulos

T. Ryhänen

17:40–18:00

M. Szalkowski

D. Svintsov

S. Kopsidas

B. Brennan

18:00–19:30

POSTER I – ILISSOS FOYER AND ILISSOS

20:00–22:30

GUIDED TOUR AND WELCOME RECEPTION - NEW ACROPOLIS MUSEUM

MONDAY 25 SEPTEMBER 14:00–15:00, ILISSOS
FRINGE SESSION

OPEN FORUM

Vincenzo Palermo, Graphene Flagship

Mónica Perez Cabero, COST

Learn more about large collaborative projects running within the frameworks of the European Union and how they can create joint networking possibilities. First you will get the latest developments from the Graphene Flagship, EU's largest ever research initiative and organiser of the Graphene Week conference, by its newly appointed Vice Director Vincenzo Palermo.

After that, Mónica Perez Cabero will provide you with useful information about the EU's COST Association Programme. Details about some relevant running actions and existing links between COST and the Graphene Flagship will be introduced as well as some upcoming activities. Moreover, the COST networking tools, their openness to industrial participation and key policies towards widening and gender will be discussed.

As the title suggests, the Open Forum also leaves room for questions from the participants relating to these topics!



MONDAY 25 SEPTEMBER 15:00–18:00, ILISSOS
INNOVATION FORUM I

ROADMAP

15:00 - 16:20 ROADMAPS LEADING THE WAY

The Graphene Innovation Forum begins with a session dedicated entirely to roadmapping graphene and other 2D materials towards future applications and will focus firmly on the needs and perspectives of industry. Graphene and other 2D material technologies have promising properties and the potential to lead to advancements in different applications.

Thomas Reiss, Fraunhofer ISI

Mallika Bohm, Talga Technologies Ltd.

Alvaro Jara, Airbus

16:40 - 18:00 HARVESTING FROM RESEARCH

For new technologies finding their way into products, several aspects have to be addressed. The second part of this session explores how to create a positive innovation climate, map assets, spin off an idea and to create your own business.

Fabrizio Tubertini, Italian Institute of Technology

Kari Hjelt, Chalmers Industrial Technology

Tapani Ryhänen, Emberion OY



MONDAY 25 SEPTEMBER 20:00–22:30, ACROPOLIS MUSEUM

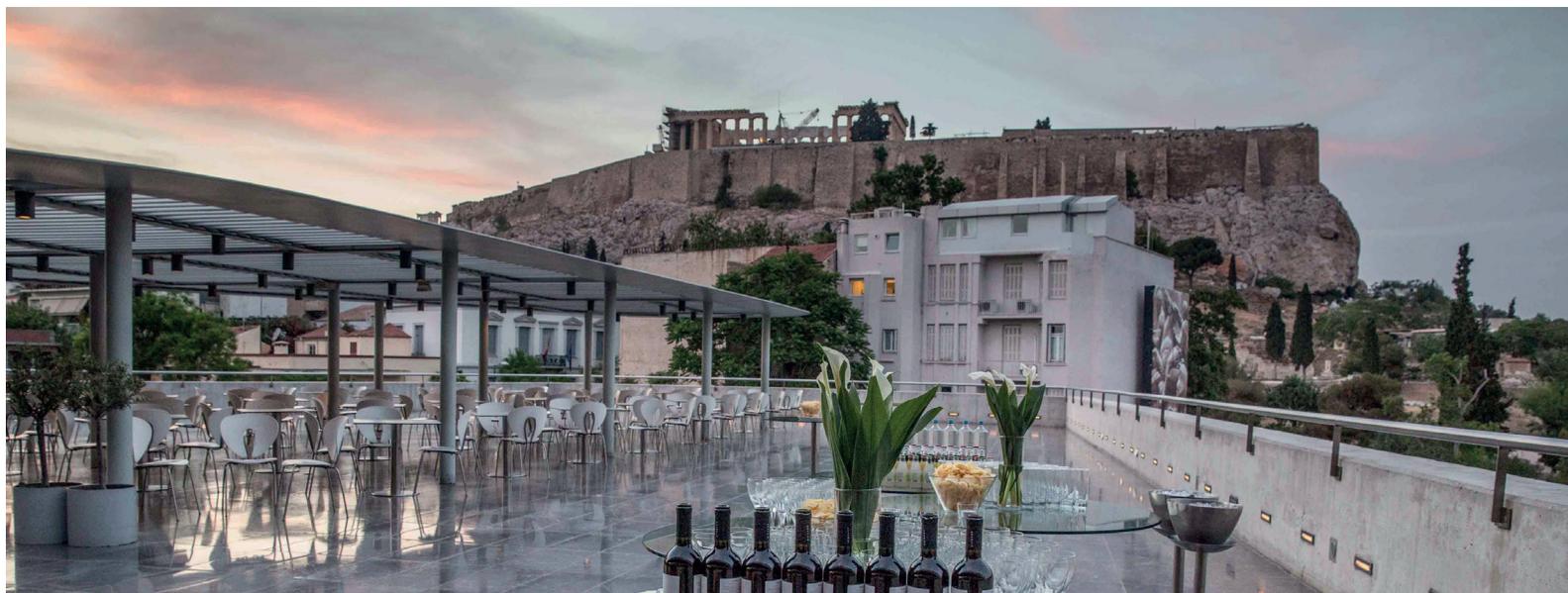
WELCOME RECEPTION

On the first evening of Graphene Week, delegates have the unique opportunity to combine a journey in ancient history, through a guided tour, with a welcome reception at the dazzling Acropolis Museum.

Founded to exhibit all the significant finds from the Sacred Rock and its foothills, attracting millions of visitors every year, the new Acropolis Museum is listed as one of the best in the world. The guided tour will give you a glimpse of the museum's more than 3.000 artefacts from the most significant sanctuary of the ancient city, the Sacred Rock of the Athenian Acropolis.

After the tour, we mingle at the museum's restaurant, enjoying the most astonishing view of the Parthenon.

The tour and the welcome reception are included in the conference participant fee.



Acropolis Museum
15 Dionysiou Areopagitou Street
Athens

A 30-minute walk or 15 minutes by taxi
from the Divani Caravel Hotel.



TUESDAY 26 SEPTEMBER

08:00–17:00	REGISTRATION AND HELPDESK - ILISSOS FOYER				
10:00–18:30	EXHIBITION - OLYMPIA FOYER				
08:30–12:55	PLENARY SESSION – OLYMPIA HALL				
08:30–09:05	Michael Crommie, University of California				
09:05–09:40	Marcos Pimenta, Universidade Federal de Minas Gerais				
09:40–10:15	Helene Bouchiat, Laboratoire de Physique des Solides Orsay				
10:15–10:35	COFFEE BREAK - OLYMPIA FOYER				
10:35–11:10	Jeanie Lau, University of Riverside				
11:10–11:45	Rudolf Bratschitsch, University of Münster				
11:45–12:20	Heejun Yang, Sungkyunkwan University (SKKU)				
12:20–12:55	Rainer Hillenbrand, CIC nanoGUNE				
12:55–15:00	LUNCH - AMALIA AND OLYMPIA FOYER				
14:00–15:00	LUNCH - AMALIA AND OLYMPIA FOYER			ETHICS FORUM - ILISSOS	
15:00–18:00	PARALLEL I Fundamental Science of graphene/2DM and their hetero-structures OLYMPIA A	PARALLEL II Electronics, optoelectronics and photonics using graphene and other 2DM OLYMPIA B	PARALLEL III Energy applications of graphene and related materials VERGINA	PARALLEL IV Graphene Synthesis and Graphene Nanoribbons PELLA	INNOVATION FORUM II Commercialisation ILISSOS
15:00–15:20	Z. Dou	L. Khang June	G. Kakavelakis	R. Fasel	J. Baker
15:20–15:40	I. Paradisanos	M. Philippi	C. Botas		Z. Jarrahi Cinker
15:40–16:00	A. Laitinen	D. Tan	J. Min Kim	A. Sinitskii	S. Stahl
16:00–16:20	H. Overweg	M. Serri	M. Jordanov	D. Peña	B. Saner Okan
16:20–16:40	COFFEE BREAK - OLYMPIA FOYER				
16:40–17:00	J. Wallbank	E. Durgun	V. Di Noto	F. Fischer	A. Ballestar
17:00–17:20	J. Eroms	G. Kliros	A. Ansaldo	P. Tegeder	G. Vall-Llosera
17:20–17:40	J. König-Otto	A. Montanaro	M. Christian	L. Liang	P. Bondavalli
17:40–18:00	S. T. Le	D. K. Gaskill	H. Dong Jang	J. Björk	A. Andersson
18:00–19:30	POSTER I – ILISSOS FOYER AND ILISSOS				
18:00–20:00	WOMEN IN GRAPHENE - HORIZON				

TUESDAY 26 SEPTEMBER 14:00–15:00, ILISSOS
FRINGE SESSION

ETHICS FORUM

Bernadette Bensaude-Vincent, University of Paris

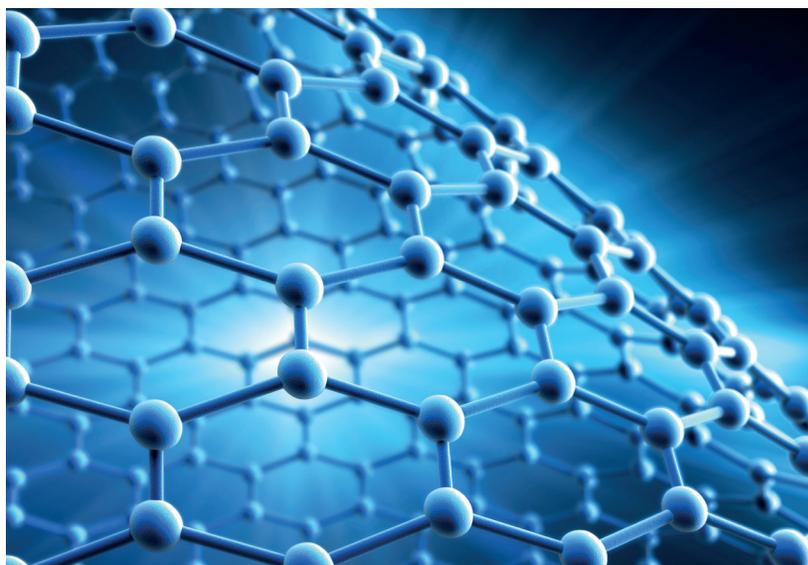
Philip Macnaghten, Wageningen University

Ulrike Felt, University of Vienna

Embedding Ethical and Societal Engagement in Graphene Research

Ethical considerations and Responsible Research and Innovation (RRI) is becoming increasingly important in the world of science in general and for EU-funded projects in particular. Alongside compliance with bioethical norms and formal processes of risk assessment, RRI asks researchers to anticipate the future impacts of graphene research, to engage in inclusive deliberation with wider society, to reflect on their own background assumptions and commitments, and to ensure that the science that develops is responsive to these processes.

Three experts from the Graphene Flagship Ethical Advisory Board will chair this session with the aim of raising awareness and inspire dialogue about RRI. The concept of RRI and the capacities and competences that are needed to put it into practice will be explored, followed by a panel discussion. Participants in the panel are: Vincenzo Palermo, Chalmers University of Technology, Kostas Kostarelos, University of Manchester, Sanna Arpiainen, VTT Technical Research Centre of Finland and Daniel Neumaier, AMO.



TUESDAY 26 SEPTEMBER 15:00–18:00, ILISSOS
INNOVATION FORUM II

COMMERCIALISATION

15:00 - 16:20 COMMERCIALISATION

Commercialisation is at the heart of the Graphene Innovation Forum and this session will explore how to accelerate the development of graphene and related 2D materials through to commercialisation.

James Baker, National Graphene Institute

Zina Jarrahi Cinker, National Graphene Association

Selim Stahl, RISE - Research Institutes of Sweden

Burcu Saner Okan, Sabanci University

16:40-18:00 INDUSTRY'S PERSPECTIVE

Meet representatives from ABB, Ericsson and Thales, all in the middle of the commercialisation path, who will talk about their experience and share their insights.

Ana Ballestar, GPNT S.L

Gemma Vall-Llosea, Ericsson Research RA HDE

Paolo Bondavalli, Thales

Anna Andersson, ABB



WEDNESDAY 27 SEPTEMBER

08:00-17:00	REGISTRATION AND HELPDESK - ILISSOS FOYER			
10:00-18:30	EXHIBITION - OLYMPIA FOYER			
08:30-12:55	PLENARY SESSION - OLYMPIA HALL			
08:30-09:05	Jose Garrido, ICN2 - Catalan Institute of Nanoscience and Nanotechnology			
09:05-09:40	Maurizio Prato, University of Trieste			
09:40-10:15	Kostas Kostarelos, The University of Manchester			
10:15-10:35	COFFEE BREAK - OLYMPIA FOYER			
10:35-11:10	Irina Grigorieva, The University of Manchester			
11:10-11:45	Anna Andersson, ABB			
11:45-12:20	Paolo Bondavalli, Thales			
12:20-12:55	Antonio Castro Neto, National University of Singapore			
12:55-15:00	LUNCH - AMALIA AND OLYMPIA FOYER			
14:00-15:00			INTERFACES - ILISSOS	
15:00-18:00	PARALLEL I Fundamental Science of graphene/2DM and their heterostructures OLYMPIA A	PARALLEL II Electronics, optoelectronics and photonics using graphene and other 2DM OLYMPIA B	PARALLEL III Interfaces in supported/embedded graphene/2DM systems VERGINA	INNOVATION FORUM III Industrialisation - Standardisation ILISSOS
15:00-15:20	J. C. Leutenantsmeyer	S. Ganichev	M. Lemme	A. Pollard
15:20-15:40	A. Zabolotskiy	M. Bettadahalli Nandishaiah		Z. Melhem
15:40-16:00	L. Jiang	C. Giusca	B. Liubov	J. Obrzut
16:00-16:20	G. Berghäuser	I. D. Bernal Villamil	L. Burk	D. Mackenzie
16:20-16:40	COFFEE BREAK - OLYMPIA FOYER			
16:40-17:00	P. Nagler	M. S. Ergoktas	M. Romagnoli	M. Kim
17:00-17:20	R. Boya	Y-T. Liou		K. Verguts
17:20-17:40	S. Masubuchi	Y. Sata	O. Frank	S. Vollebregt
17:40-18:00	P. Rickhaus	U. Khan	A. Kovtun	A. Centeno
18:00-19:30	POSTER II - ILISSOS FOYER AND ILISSOS			

WEDNESDAY 27 SEPTEMBER 14:00–15:00, ILISSOS
FRINGE SESSION

INTERFACES

Marco Romagnoli, CNIT

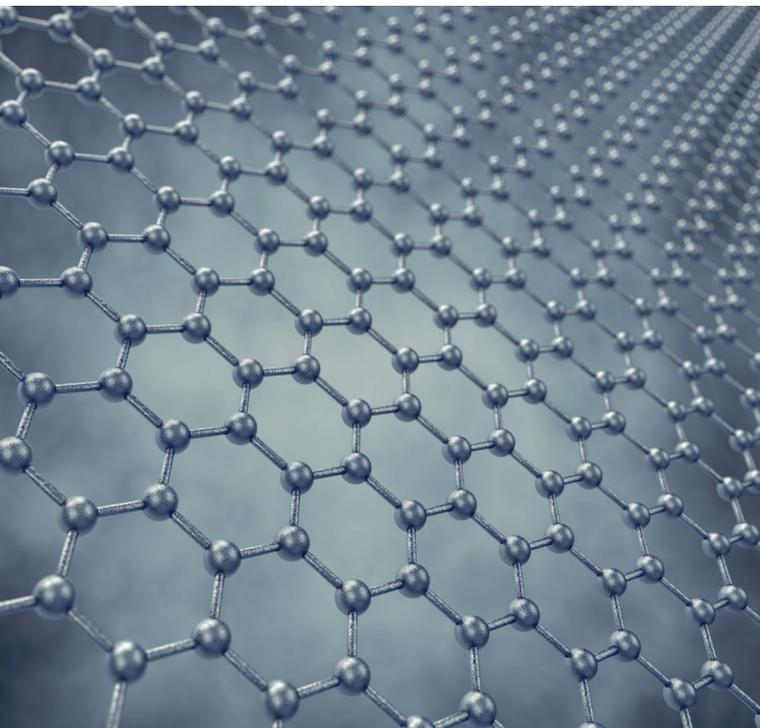
Max Lemme, AMO GmbH

Giovanna Pastore, FORTH

Mar Garcia Hernandez, CSIC

Interface effects in graphene, being a two sided surface, are of fundamental and technological importance. This is so because the superlative properties of graphene severely degrade as a result of the interaction with the surrounding material conforming the substrates, the matrix where graphene can be embedded or simply the working atmosphere.

In this session, you will get an overview of the challenges in technologically relevant interfaces like those related to transfer processes or the development of low resistance metal contacts that are essential to drive graphene from the laboratories to real applications. The session will also touch upon the current strategies to understand and solve the problems that interfaces poses for the application of graphene, and other 2D materials in current industrial technologies.



WEDNESDAY 27 SEPTEMBER 15:00–18:00, ILISSOS
INNOVATION FORUM III

INDUSTRIALISATION AND STANDARDISATION

15:00 - 16:20 STANDARDISATION - ESSENTIAL TO FUTURE PRODUCTS

The importance of standardisation for any material that is to be commercially successful cannot be overstated and there are many different issues, which will be discussed in this session, surrounding standardisation of graphene and other 2D materials.

Andrew Pollard, NPL

Ziad Melhem, Oxford Instruments NanoScience

Jan Obrzut, National Institute of Standards and Technology

David Mackenzie, Technical University of Denmark

16:40 - 18:00 PROCESSING ON WAFER

A key for future success of graphene in the electronics industry is the ability to process graphene and related materials on wafers. In this session, we will hear representatives from both universities, institute and industry speak on methods related to processing on wafers.

Maria Kim, Aalto University

Ken Verguts, Imec

Sten Vollebregt, TU Delft

Alba Centeno, Graphenea





WEDNESDAY 15 JUNE 18:00 – 20:00, HORIZON

WOMEN IN GRAPHENE

Sian Fogden, Nanotech innovator/Graphene Flagship Press Coordinator

Maria Koutrokoi, Greek National Contact Point Coordinator

Emilie Klecha, Scientific and Policy Officer, European Commission Flagships unit

The Women in Graphene initiative within the Graphene Flagship has been set up to help support women and create a more gender diverse scientific community. At Graphene Week 2017 the Women in Graphene session has an innovation focus with a number of great speakers talking about innovation and gender equality from a number of different angles.

[#WomenInGraphene](#)



THURSDAY 18 SEPTEMBER

08:00–17:00	REGISTRATION AND HELPDESK - ILISSOS FOYER				
10:00–18:30	EXHIBITION - OLYMPIA FOYER				
08:30–12:55	PLENARY SESSION – OLYMPIA HALL				
08:30–09:05	Andrea Ferrari, University of Cambridge				
09:05–09:40	Jonathan Coleman, Trinity College Dublin				
09:40–10:15	Marco Molina, Leonardo				
10:15–10:35	COFFEE BREAK - OLYMPIA FOYER				
10:35–11:10	Grzegorz Lupina, IHP				
11:10–11:45	Ian Kinloch, The University of Manchester				
11:45–12:20	Gerasimos Konstantatos, ICFO - Institute of Photonic Sciences				
12:20–12:55	Yuhei Hayamizu, Tokyo Institute of Technology				
12:55–15:00	LUNCH - AMALIA AND OLYMPIA FOYER				
14:00–15:00	INSIDE NATURE RESEARCH - ILISSOS				
14:00–19:00	GRAPHENE CONNECT WORKSHOP - HORIZON				
15:00–18:00	PARALLEL I Synthesis and functionalisation of graphene and other 2DM OLYMPIA A	PARALLEL II Mechanics of graphene and other 2DM OLYMPIA B	PARALLEL III Fundamental science of graphene/2DM and their hetero-structures VERGINA	PARALLEL IV Graphene/2DM inks & powders and their applications ILISSOS	PARALLEL V Polygraph project results MYCENAE
15:00–15:20	A. Laskarakis	M. Belete	A. Tomadin	T. Miller	J. Gomez
15:20–15:40	A. Tarasov	B. Christian	L. Chernozaton-skii	T. Carey	F. Amon
15:40–16:00	H. Li	D. Papageorgiou	I. Gutierrez-Lezama	A. Keerthi	H. Zhang
16:00–16:20	M. Heilmann	S. Forti	G. Schneider	M. Lozada-Hidalgo	
16:20–16:40	COFFEE BREAK - OLYMPIA FOYER				
16:40–17:00	J. Gomez	L. Haghighi Poudeh	D. Ki	A. Janardanan	
17:00–17:20	A. Fina	M. Alfonso	L. He	A. Esau Del Rio Castillo	
17:20–17:40	L. Mouchliadis	T-H. Kim	R. Pisoni	C. Howard	
18:00–19:30	POSTER II – ILISSOS FOYER AND ILISSOS				
20:30–24:00	CONFERENCE DINNER - ZAPPEION HALL				

THURSDAY 28 SEPTEMBER 14:00 – 15:00, ILISSOS
FRINGE SESSION

INSIDE NATURE RESEARCH

Luke Fleet, Nature Physics

Maria Maragkou, Nature Materials

Publishing one's work is an important part of any researchers career. Take the opportunity, during Graphene Week, to meet some of the editors of Nature's many journals and learn more about their work behind the scenes!

Nature-branded journals continue to strive to publish and communicate the most striking advances in science to broad audiences. In this session Luke Fleet from Nature Physics and Maria Maragkou from Nature Materials will give insight into the Nature-branded journals, their policies and procedures. The session will be chaired by Silvia Milana, Nature Communications and Olga Bubnova, Nature Nanotechnology.



THURSDAY 28 SEPTEMBER 14:00–19:00, HORIZON

GRAPHENE CONNECT WORKSHOP

NEW MATERIALS AND DEVICES

The aim of the Graphene Connect workshop is to create a platform for industry and academia to meet and share the latest Graphene Flagship research, an insight to industry demands in this field and to find collaboration partners for new projects. As a participant, you will not only learn more about the potential of graphene and other 2D materials but also build new R&D contacts that could be the starting point for future graphene innovation projects.

The workshop features speakers of leading brands and will cover opportunities and challenges in graphene production, the use of graphene in new devices and the possibility to synthesise other 2D materials. Besides listening to hands-on experience from leading brands, you will engage in group discussion and networking sessions tailored to your needs and interests.

Jonathan Coleman, Trinity College Dublin

Stephan Roche, ICN2

Ken Teo, AIXTRON Ltd

Amaia Zurutuza, Graphenea

Ken Verguts, Imec and University of Leuven

*Graphene Connect is fully booked,
but no-show seats will be made available at 14:00*



THURSDAY 28 SEPTEMBER 20:30–24:00, ZAPPEION HALL

CONFERENCE DINNER

The conference dinner and poster prize ceremony will take place at the prestigious Zappeion Hall. Located in the historic centre of Athens, within walking distance from the Olympic Panathenaic Stadium of the 1896 Olympic Games, the Greek Parliament House and Syntagma Square, the Zappeion Hall has witnessed the history of Athens for the past 120 years. It has been a key site for some of the nation's most significant moments, and has always been integrally linked to the Olympic Movement.

Please note that the Gala Dinner is an optional choice to the conference registration. Forgot to book the dinner? No problem, just go to the Helpdesk area and we will help you.

Zappeion Hall
Leof. Vasilissis Olgas
Athens

A 20-minute walk or 7 minutes by taxi from
the Divani Caravel Hotel.



FRIDAY 29 SEPTEMBER

08:00–13:00	HELPDESK - ILISSOS FOYER
08:30–12:55	PLENARY SESSION – OLYMPIA HALL
08:30–09:05	Yeliang Wang, Chinese Academy of Sciences
09:05–09:40	Yoshi Iwasa, University of Tokyo
09:40–10:15	Annick Loiseau, National Centre for Scientific Research (CNRS)
10:15–10:35	COFFEE BREAK - AMALIA AND OLYMPIA FOYER
10:35–11:10	Camilla Coletti, Italian Institute of Technology (IIT)
11:10–11:45	Francesco Bonaccorso, Italian Institute of Technology (IIT)
11:45–12:20	Annalisa Fasolino, Radboud University
12:20–12:55	Thomas Müller, TU Wien
12:55–13:20	CLOSING CEREMONY
13:30–15:00	LUNCH - AMALIA AND OLYMPIA FOYER

EXHIBITORS AND SPONSORS



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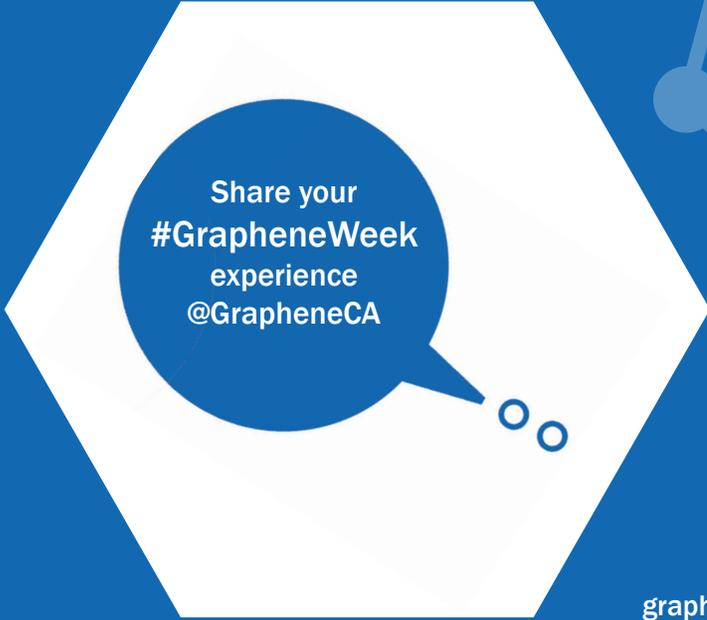
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