

# fusion

FOR ALL

**FUSION SCHOOL** 1<sup>st</sup> edition

Everything you ever wanted to know  
about magnetic confinement fusion,  
the ITER and WEST tokamaks,  
the issues at stake, and  
the challenges ahead!

30<sup>th</sup> March  
to 03<sup>rd</sup> April  
**2026**  
Cadarache Castle

iter

ORGANIZED  
BY CEA-IRFM

[fusion-for-all@cea.fr](mailto:fusion-for-all@cea.fr)

cea



# FUSION for All

30th March – 3rd April 2026 | Cadarache Castle



## PROGRAM – MONDAY 30 MARCH

- 8:30** Departure for the Cadarache Castle  
by CEA bus
- 9:00** Welcome and Introduction A.BECOULET
- 9:15** The energy landscape J. HILLAIRET
- 10:15** Coffee break
- 10:30** Fusion history and present context J.BUCALLOSSI
- 11:30** Coffee break
- 11:45** Introduction to Tokamaks and ITER P.BARABASCHI
- 12:45** Lunch
- 13:45** Departure for the IRFM by CEA bus
- 14:15** Collect CEA badges
- 15:00** WEST and its auxiliary systems in  
Room René Gravier
- 15:30** WEST visit
- 16:45** Return to the Cadarache Castle
- 17:00** Welcome reception
- 18:00** Return to CEA Cadarache by CEA bus





# FUSION for All

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## PROGRAM – TUESDAY 31 MARCH

- 8:30** Departure for the Cadarache Castle  
by CEA bus
- 9:00** Magnets for Magnetic Fusion A. TORRE
- 10:00** Coffee break
- 10:15** Plasma heating J. HILLAIRET
- 11:15** Coffee break
- 11:30** Confinement, transport and impurities C.BOURDELLE
- 12:30** Lunch
- 13:30** Departure for the IRFM by CEA bus
- 14:00** Visit IRFM laboratories and WEST  
systems  
Cryo platforms A. TORRE  
TITAN J. HILLAIRET  
KLYSTRONS X. REGAL-MEZIN  
Control-Command room P. MOREAU
- 16:15** Return to CEA Cadarache by CEA bus





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## PROGRAM – WEDNESDAY 1 APRIL

<b>8:30</b>	Departure for the Cadarache Castle by CEA bus	
<b>9:00</b>	Plasma-wall interaction	R.MITTEAU
<b>10:00</b>	Coffee break	
<b>10:30</b>	Materials for fusion	A.DURIF
<b>11:15</b>	Coffee break	
<b>11:30</b>	Tritium, blankets and fuel cycle	O.GASTALDI K.LIGER
<b>12:30</b>	Lunch	
<b>13:30</b>	Departure for the IRFM by CEA bus	
<b>14:00</b>	Visit IRFM laboratories and WEST systems PFC qualification Interferometry Simulation/Virtual Reality Infrared hands-on session	A. DURIF M.DOMENES H.BUFFERAND / S.GAZZOTTI X.COURTOIS
<b>16:15</b>	Return to CEA Cadarache by CEA bus	
<b>16h30</b>	Return CEA badges	





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## PROGRAM – THURSDAY 2 APRIL

- |              |   |                 |
|--------------|---|-----------------|
| <b>8:30</b>  | Departure for the Cadarache Castle by CEA bus     |                 |
| <b>9:00</b>  | Operation, plasma scenarios and experiments       | P.MOREAU        |
| <b>10:00</b> | Coffee break                                      |                 |
| <b>10:30</b> | Landscape of magnetic fusion devices in the world | E. JOFFRIN      |
| <b>11:15</b> | Coffee break                                      |                 |
| <b>11:30</b> | Operation of tokamak in nuclear environment       | J-P. FRICONNEAU |
| <b>12:30</b> | Lunch   |                 |
| <b>13:30</b> | Group picture                                     |                 |
| <b>14:00</b> | Round Table : Artificial Intelligence and Fusion  |                 |
| <b>16:30</b> | Poster session, snack                             |                 |
| <b>17:30</b> | Return to CEA Cadarache by CEA bus                |                 |
| <b>18:30</b> | ITER Bus  |                 |





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## PROGRAM – FRIDAY 3 APRIL

- 8:30** Departure for the Cadarache Castle by CEA bus
- 9:00** The ITER project (and safety aspects) A.BECOULET / TBD
- 10:00** Coffee break
- 10:30** Presentation of the AIF (Agence ITER France) F.RAYNAL
- 11:15** Coffee break
- 11:30** Fusion power plant: principles and ongoing projects P.MAGAUD
- 12:30** Lunch
- 13:30** Departure for ITER by CEA bus
- 14:00** Visit ITER and laboratories (ITER)
- 15h45** Return to the Cadarache Castle
- 16h15** Return to CEA Cadarache by CEA bus





# FUSION for All

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## THE SPEAKERS

**Pietro Barabaschi:**

*Director General of ITER*

**Alain Becoulet :**

*Deputy Director General of ITER*

**Jérôme Bucalossi :**

*Director General of IRFM*

**Hugo Bufferand :**

*Research Engineer at CEA*

**Clarisse Bourdelle :**

*Research Engineer at CEA*

**Xavier Courtois :**

*Research Engineer at CEA*

**Mickael Domenes :**

*Research Engineer at CEA*

**Alan Durif :**

*Research Engineer at CEA*

**Jean-Pierre Friconneau :**

*Research Engineer, Senior Expert at CEA*

**Olivier Gastaldi :**

*Deputy Director of the ITER France Agency (AIF)*

**Stephan Gazzoti :**

*Research Engineer at CEA*

**Julien Hillairet :**

*Research Director at CEA/IRFM and Associate Professor at INSTN.*

**Emmanuel Joffrin :**

*Project Officer – JT-60SA, DTT and KSTAR*

**Karine Liger :**

*Research Engineer at CEA*





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## THE SPEAKERS

**Philippe Magaud :**

*Deputy Director of IRFM*

**Raphaël Mitteau :**

*Research Engineer at CEA*

**Philippe Moreau :**

*Head of the Plasma Control and Fueling Group (GPAM)*

**Fabrice Raynal :**

*Head of the ITER France Agency (CEA)*

**Xavier Régal Mézin :**

*Research Engineer at CEA*

**Alexandre Torre**

*Head of the Superconducting Magnets Group (GAIM)*





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## PRACTICAL INFORMATION

The IRFM is organizing the first edition of the “Fusion for All” school.

**The training course will take place from March 30 to 3 April, 2026, at the Cadarache Castle.**

The registration fee is €2,650 (incl. VAT) and includes:

- lectures
- laboratory visits
- transport for visits
- coffee breaks, lunch at the Château’s restaurant, welcome evening and debate evening..

**If you require accommodation, the Château de Cadarache can host you. Please contact them at +33 (0)4 42 25 79 10.**

More information: [fusion-pour-tous@cea.fr](mailto:fusion-pour-tous@cea.fr)

