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EUROfusion's Fusion in Europe Newsletter
November 12, 2025



Dear Reader,

🧠 Sometimes, scientists are side-eyed and seen as kids playing in giant, expensive sandpits.

🌀 But what if that playful curiosity is the secret sauce to solving the riddles of the universe?

🇳🇱 When asked what he enjoyed most about visiting EUROfusion's partner, the **United Kingdom Atomic Energy Authority (UKAEA)**, and testing heat exhaust concepts at the **Mega Ampere Spherical Tokamak (MAST Upgrade)**, Dutch fusion scientist **Gijs Derks** 🤔 said:

✨ "It was amazing to work together with the British and get the opportunity to tinker together on their control system — to finally push the button and see it in action, doing its job." ✨

🤝 To *tinker together*, to *come together*, to work collaboratively and open-mindedly on one shared project - that's how we learn that we are all one. And from that unity, creativity flourishes. 🌱

🌍 This spirit was also reflected in the **World Science Day for Peace and Development**, which we celebrated on Monday. **EIROforum**, the collaboration among eight European intergovernmental research organizations that share resources, expertise and facilities, released several video statements from their members with one of them being EUROfusion. We shared a wish, namely to make **fusion energy a reality by 2050**. 🌐

🚀 Flipping the switch on a state-of-the-art computer surely has a big impact towards our goal. **Pitagora** may sound ancient, but it's actually Europe's fastest brain driving fusion forward. The high-performance computer was inaugurated in Bologna at the beginning of November.*

🌀 What else has been happening in the world of fusion over the past four weeks? You'll find it all in this newsletter. Enjoy the read - and the curiosity, excitement, and vision of the future that we can always recognise in children. 🌞

Highlights

🔌 Flipping the Switch on Pitagora

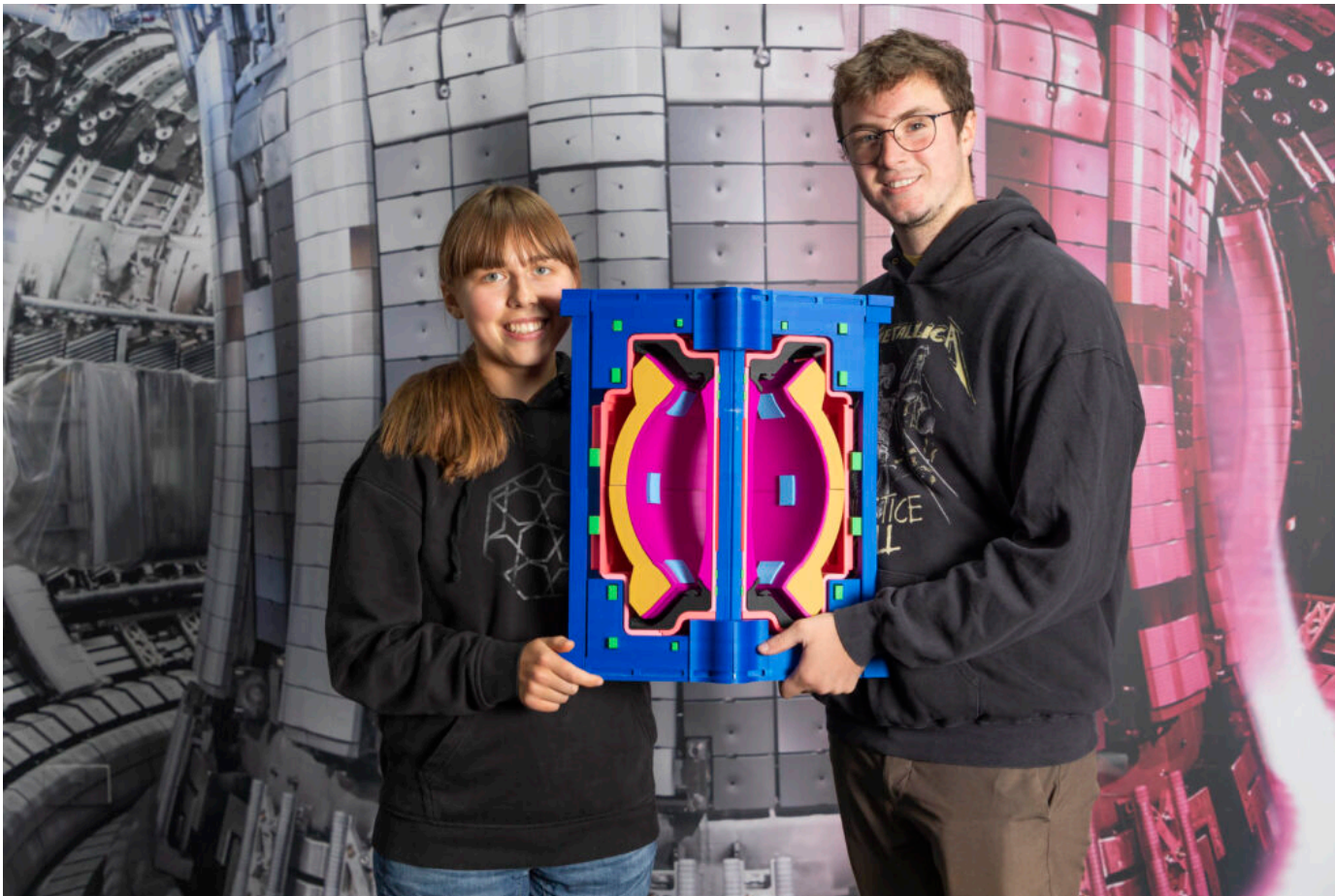
💡 On November 3rd at the CINECA Data Center in Bologna 🇮🇹, the High Performance Supercomputer "Pitagora" was officially inaugurated, a powerhouse of computing performance dedicated to advancing EUROfusion research.

Gianfranco Federici (EUROfusion Programme Manager) was proudly cutting the cord alongside Francesco Ubertini (President of Cineca), Anna Maria Bernini, (Minister of University and Research of Italy), Gilberto Pichetto Fratin (Italian Minister of the Environment and Energy Security) as well as Francesca Mariotti (President of ENEA,) from left to right).

👉 [Read more!](#)



EUROfusion news



🏆 Young Winners at JET

📣 German students Maja and Julius, winner of the 2024 European Union Contest for Young Scientists (EUCYS), 🚀 went to JET, the Joint European Torus, this autumn.

During the visit, they met EUROfusion researchers and engineers 🧑‍🔬 also working on MAST Upgrade (Mega Ampere Spherical Tokamak), gaining insight into Europe's collaborative efforts toward sustainable fusion power.

👉 Read here what was most surprising for them:

[Learn more](#)



🌟 EUROfusion and ITER foster cooperation with new agreement

😊 Smiling faces at the recent Fusion Energy Conference 😊 :
EUROfusion Programme Manager Gianfranco Federici (right) and ITER Director-General Pietro Barabaschi sign a prestigious cooperation agreement between both partners that will power up material research and initiatives in training and education for fusion. ⚡

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Member News



for Heat Exhaust 🔥

Gijs Derks (left) and Bob Kool from our Dutch Research Unit DIFFER were fresh off the ferry to work with researchers at the UK Atomic Energy Authority (UKAEA) in the UK.

🔧 Their experiments show that even tiny changes in magnetic fields within double-null configurations can cause near-instant shifts in heat and particle loads, posing challenges for control systems. 🧠 They also developed smarter fuel management techniques using frozen pellets and advanced models which is an important progress towards future fusion power plants. 🔥

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🇩🇰 We introduce EUROfusion Member

Denmark

🇩🇰 Denmark's participation in the EUROfusion programme is led by the 🎓 Technical University of Denmark through the DANfusion consortium, which also includes Aarhus University, University of Southern Denmark (@SDU), and Aalborg University.

🔬 At DTU, the Plasma Physics and Fusion Energy (PPFE) group leads Danish fusion activities — from plasma modelling and materials science to diagnostics and fusion device operation. It also operates NORTH, the first tokamak in Scandinavia, used for research and education within EUROfusion.

[Read more](#)



🌟 EIROforum members join for World Science Day for Peace and Development

🇪🇺 On Monday, we celebrated the World Science Day for Peace and Development. 🎉 With EUROfusion being a member of EIROforum, we shared a message of gratitude and commitment to making fusion energy work by 2050. We share those heartfelt videos with the other senior leaders from across the EIROforum organisations. Check here for their statements:

[Learn more](#)



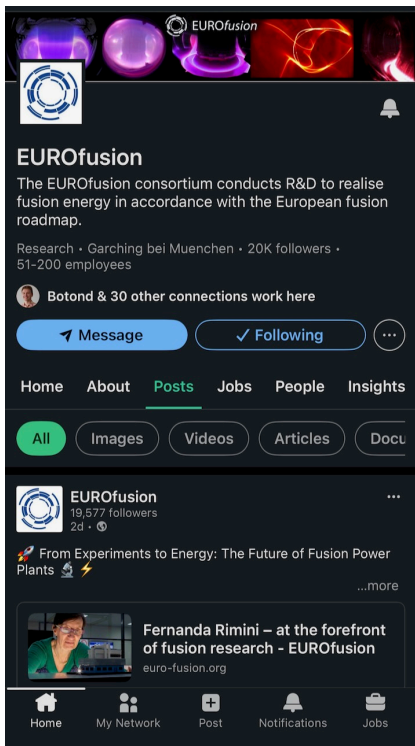
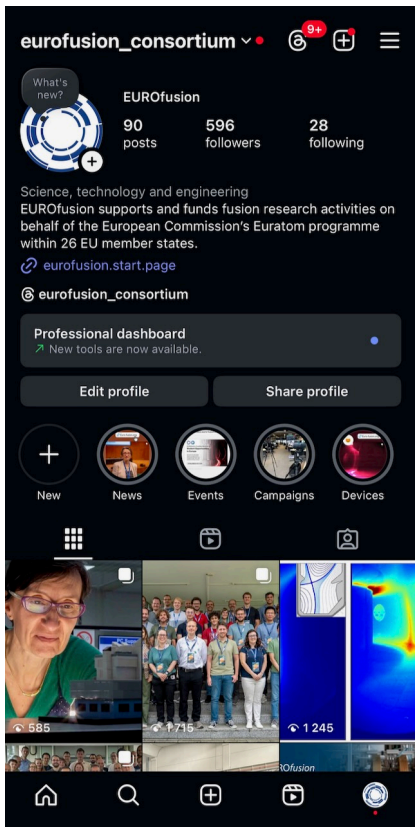
🏗️ Fusion Technology Transfer Award is calling 🧪

👤 The annual Fusion Technology Transfer Award is back! Organized by Fusion for Energy (F4E) together with EUROfusion and supported by Viromii Innovation, the award recognises companies and organisations across Europe that successfully bring fusion-derived technologies or know-how into commercial use. Any European company or

6th of October 2025 and closes on the 5th of December 2025 at 23:59.

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