

Date: 15 Oct 2025

FYI - Fusion News/Alerts

IAEA Launches New World Fusion Outlook at Opening of Fusion Events in China

<https://www.iaea.org/newscenter/pressreleases/iaea-launches-new-world-fusion-outlook-at-opening-of-fusion-events-in-china>

India Fusion Day: Celebration of Indian Contributions at ITER Organisation France

<https://www.iterindia.in/india-fusion-day-celebration-indian-contributions-iter-organisation-france>

Plasma edge modellers convene at ITER for Code Camp

<https://www.iter.org/node/20687/plasma-edge-modellers-convene-iter-code-camp>
[Latest ITER Newsline: <https://www.iter.org/whatsnew/472>]

Nuclear fusion firm Gauss unveils Europe's first power plant design

<https://www.reuters.com/business/energy/nuclear-fusion-firm-gauss-unveils-europes-first-power-plant-design-2025-10-09/>

The Challenges of Fusion-Based Electricity for AI Datacenters

<https://cacm.acm.org/news/the-challenges-of-fusion-based-electricity-for-ai-datacenters/>

New prediction model could improve the reliability of fusion power plants

<https://www.eurekalert.org/news-releases/1101052>

How a Boom in Fusion Companies Could Speed Up the ‘Energy of the Future’

<https://www.newsweek.com/how-a-boom-in-fusion-companies-could-speed-up-the-energy-of-the-future-10879167>

F4E Supply Chain Days bring together European companies of different sizes

<https://fusionforenergy.europa.eu/news/f4e-supply-chain-days-contracts-procurement-sustainability-sme-fusion/amp/>

Fusion power plants don't exist yet, but they're making money anyway

<https://www.technologyreview.com/2025/09/25/1124050/fusion-future-funding/>

Study: Clean fusion energy could add \$125 billion to California economy

<https://timesofsandiego.com/tech/2025/10/09/study-clean-fusion-energy-could-add-125-billion-to-california-economy/>

Commercial compact fusion triggered REBCO tape industry: Pulsed laser deposition technology opportunities and challenges

<https://www.eurekalert.org/news-releases/1101339>

UMass Lowell and MIT back fission and fusion future for Massachusetts

<https://www.ans.org/news/article-7452/umass-lowell-and-mit-back-fission-and-fusion-future-for-massachusetts/>

How advanced materials could unleash fusion energy

<https://cen.acs.org/energy/nuclear-power/how-advanced-materials-unleash-fusion-energy/103/web/2025/10>

ITER control room complete

<https://www.neimagazine.com/news/iter-control-room-complete/>

New diagnostic systems in progress to upgrade JT-60SA

<https://fusionforenergy.europa.eu/news/jt60sa-upgrade-diagnostic-edge-thomson-scattering/>

Pacific Fusion to open facility in New Mexico

<https://www.world-nuclear-news.org/articles/pacific-fusion-to-open-facility-in-new-mexico>

Learning from decommissioning JET

<https://www.neimagazine.com/news/learning-from-jet-decommissioning/>

Particle-in-cell simulations of burning inertial confinement fusion capsule implosions

<https://journals.aps.org/pre/abstract/10.1103/zwjx-jbxl>

Lightning strikes 12 times per minute on fusion engineering test platform

<https://phys.org/news/2025-09-lightning-minute-fusion-platform.html>

Rice physicists probe quark-gluon plasma temperatures, helping paint more detailed picture of big bang

<https://news.rice.edu/news/2025/rice-physicists-probe-quark-gluon-plasma-temperatures-helping-paint-more-detailed-picture>

Understanding the plasma processes connecting the solar system

<https://physics.uiowa.edu/news/2025/10/understanding-plasma-processes-connecting-solar-system>

A focus on clean energy transition

<https://www.ans.org/news/article-7454/a-focus-on-clean-energy-transition/>

Compact laser-plasma accelerator can generate muons on demand for imaging

<https://phys.org/news/2025-10-compact-laser-plasma-generate-muons.html>

Understanding the plasma processes connecting the solar system

<https://www.aip.org/scilight/understanding-the-plasma-processes-connecting-the-solar-system>

What causes plasma waves to ‘chirp’?

<https://pubs.aip.org/aip/sci/article/2025/41/411115/3367405/What-causes-plasma-waves-to-chirp>

Schmitz elected as APS Fellow

<https://engineering.wisc.edu/blog/schmitz-elected-as-aps-fellow/>

Recent Peer-Reviewed Articles of Interest

Modeling and validation of a detritiation system with recombiner and wet scrubber for fusion fuel cycle: Steady-state analysis and dynamic control case study

<https://www.sciencedirect.com/science/article/pii/S0920379625006489>

Comparative study of surface modification of fluorinated and non-fluorinated polymers using SDBD air plasma

<https://www.nature.com/articles/s41598-025-19841-7>

Bridging open and proprietary control frameworks for fusion facilities: EPICS – Industrial SCADA integration in the CODAC system of IFMIF-DONES

<https://www.sciencedirect.com/science/article/pii/S0920379625006775>

Waves in a plasma ocean: Wave–particle interactions throughout the solar system

<https://pubs.aip.org/aip/pop/article/32/10/102901/3367206/Waves-in-a-plasma-ocean-Wave-particle-interactions>

Plasma-Sprayed Nickel-Based Electrocatalysts with Molybdenum and Chromium Doping for Efficient Hydrogen and Oxygen Evolution Reactions

<https://pubs.acs.org/doi/full/10.1021/acs.energyfuels.5c03483>

Path Integral Monte Carlo simulation twist helps decipher ‘warm dense matter’

<https://www.laserfocusworld.com/lasers-sources/article/55321660/path-integral-monte-carlo-simulation-twist-helps-decipher-warm-dense-matter>

[Of Interest]

Using generative AI to diversify virtual training grounds for robots

<https://news.mit.edu/2025/using-generative-ai-diversify-virtual-training-grounds-robots-1008>

Center to Boost Digital Twin Efficiency in Manufacturing

<https://www.asme.org/topics-resources/content/center-to-boost-digital-twin-efficiency-in-manufacturing>

The power of physics: what can a physicist do in the nuclear energy industry?

<https://physicsworld.com/a/the-power-of-physics-what-can-a-physicist-do-in-the-nuclear-energy-industry/>