

Date: 17 Sep 2025

FYI - Fusion News/Alerts

Dr Raja Ramanna Centenary (1925 - 2004)

The Legendary Nuclear Scientist Through the Eyes of Dr. Anil Kakodkar

Science India, September 2025

<https://scienceindiamag.in/sep2025-edition-magazine/>

69th IAEA General Conference, 15 – 19 September 2025, Vienna International Centre, Vienna

Statement by Dr. Ajit Kumar Mohanty

<https://www.iaea.org/sites/default/files/25/09/gc69-statement-india.pdf>

See How Fusion Energy Could Power the Future

<https://www.scientificamerican.com/article/how-three-fusion-reactor-designs-could-power-tomorrow/>

F4E and CERN join forces in fusion energy and particle physics

<https://fusionforenergy.europa.eu/news/f4e-and-cern-join-forces-in-fusion-energy-and-particle-physics/>

DOE awards \$134M for fusion research and development

<https://www.ans.org/news/article-7361/doe-awards-134m-for-fusion-research-and-development/>

Brief: DOE Awards \$6.1M to Accelerate Fusion Energy Through Private-Public Partnerships

<https://www.pppl.gov/news/2025/brief-doe-awards-61m-accelerate-fusion-energy-through-private-public-partnerships>

Fusion's Funding Surge: A September Snapshot of Capital and Confidence

<https://thefusionreport.com/fusions-funding-surge-a-september-snapshot-of-capital-and-confidence/>

Durham University scientists play key role in testing superconducting materials for world's largest fusion energy project

<https://www.eurekalert.org/news-releases/1097813>

Key diagnostic system for experimental fusion reactor nears completion

<https://phys.org/news/2025-09-key-diagnostic-experimental-fusion-reactor.html>

UC San Diego Plays Key Role in National Effort to Build a Fusion Research Data Platform

<https://today.ucsd.edu/story/uc-san-diego-plays-key-role-in-national-effort-to-build-a-fusion-research-data-platform>

Opening the black box of machine learning-controlled plasma treatments

<https://www.aip.org/sciights/opening-the-black-box-of-machine-learning-controlled-plasma-treatments>

‘Breathing’ crystal reversibly releases oxygen

<https://physicsworld.com/a/breathing-crystal-reversibly-releases-oxygen/>

Alternative divertor configurations improve fusion power exhaust control

<https://www.nature.com/articles/s41560-025-01825-6>

MIT Physicists Propose First-Ever “Neutrino Laser”

<https://scitechdaily.com/mit-physicists-propose-first-ever-neutrino-laser/>

Materials research for the future of aviation

<https://www.tum.de/en/news-and-events/all-news/press-releases/details/materials-research-for-the-future-of-aviation>

NRC to review Texas nuclear plan

<https://www.neimagazine.com/news/nrc-to-review-texas-nuclear-plan/>

Graphene just broke a fundamental law of physics

<https://www.sciencedaily.com/releases/2025/09/250912081319.htm>

LLNL Physicist Receives Edward Teller Award

<https://lasers.llnl.gov/news/llnl-physicist-receives-edward-teller-award>

UK-US nuclear deal: what does it mean and will it really lead to a ‘golden age’?

<https://www.theguardian.com/environment/2025/sep/15/uk-us-nuclear-deal-starmer-trump>

Stronger than a locomotive, mentorship powers WVU student’s krypton research

<https://wvutoday.wvu.edu/resources/stronger-than-a-locomotive-mentorship-powers-wvu-student-s-krypton-research>

Chelyabinsk Scientists Unraveled the Mysteries of Ultracold Plasma

<https://www.susu.ru/en/news/2025/09/15/chelyabinsk-scientists-unraveled-mysteries-ultracold-plasma>

Top quarks embrace in quasi-bound toponium

<https://physicsworld.com/a/top-quarks-embrace-in-quasi-bound-toponium/>

Solar wind and Sun-Planet connections

<https://www.ucl.ac.uk/mathematical-physical-sciences/mssl/research/solar-system/space-plasma-physics/space-plasma-research/solar-wind-and-sun-planet-connections>

Recent Peer-Reviewed Articles of Interest

Nuclear Fusion Propulsion Systems For Deep Space Travel Architecture: A Review

<https://www.tandfonline.com/doi/full/10.1080/15361055.2025.2533077#d1e210>

[Of Interest]

Unraveling the physics of one of America's most popular sports

<https://www.aps.org/apsnews/2025/09/unraveling-most-popular-sports>

Fusion 2035: The 10-Year Shot Clock

<https://www.youtube.com/watch?v=el9jSdsLkZU>

'Historic' nuclear deal to create 2,500 jobs

<https://www.bbc.com/news/articles/cy8rev045xgo>

Energy, Electricity and Nuclear Power Estimates for the Period up to 2050

<https://www.iaea.org/publications/15942/energy-electricity-and-nuclear-power-estimates-for-the-period-up-to-2050>