

10TH INTERNATIONAL CONFERENCE ON ADVANCES IN MATERIALS, MANUFACTURING & REPAIR FOR POWER PLANTS

OCTOBER 15-18, 2024 | BONITA SPRINGS, FLORIDA

CALL FOR PAPERS

The world is undergoing an energy transformation and the safe, reliable, affordable, and environmentally responsible operation of today and development of tomorrow's powerplants requires continued advancement of high-temperature materials technology. Materials are the key enabling technology that drives the development of high-efficiency power conversion technology. The Electric Power Research Institute (EPRI) is pleased to continue its partnership with ASM for its 10th Advances in Materials Conference building on EPRI's initial event in 1987 and rotating between the UK, Europe, North America, and the Pacific with its most recently held conference in Nagasaki, Japan (2019). The 2024 Conference will cover the latest advancements in materials, manufacturing, and repair for conventional thermal power generation including but not limited to: steam power (HRSG, Boilers, steam turbines), gas turbines, concentrating solar power, and geothermal, and advanced energy system: small modular reactors, advanced nuclear technologies, bulk thermal energy storage, sCO₂ power cycles, next generation CSP, A-USC steam, and hydrogen.

This conference will enable a robust technical exchange and promotion of collaboration among scientists, engineers, and academics on an international scale focused around the following conference themes:

- High-Temperature Materials: superalloys, CSEF steels, stainless steels, intermetallics, non-metallics, coatings, claddings
- Damage Mechanisms & Properties: Creep, creep-fatigue, oxidation and corrosion, weld performance, wear/erosion
- Component Manufacturing: castings, forgings, blades, rotors, valves, shop & field fabrication processes, etc.
- Advanced Manufacturing: additive (PBF, DED, etc.), Powder Metallurgy Hot Isostatic Pressing (PM-HIP), advanced welding and cladding processes
- Qualification: Design, design rules, codes & standards
- Performance: Field experience, Life management, Fitness-for-Service (FFS), feature testing, modeling & validation
- Repair: weld repair, rejuvenation, advanced repair methods
- Emerging High-Temperature Materials Technology: refractories, new alloy developments, modeling developments

SUBMIT YOUR ABSTRACT TODAY!

DEADLINE: DECEMBER 13, 2023

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