



Technical Topics of Interest

SMALL MODULAR REACTORS

Deployment opportunities, design, licensing and deployment challenges; SMR concepts and designs; on-grid and off-grid applications in mining and remote locations.

NEW BUILD AND LIFE EXTENSION

New build programs; international collaborations; regulatory policy and risk assessment; life extension and license renewal; design and construction; new-site licensing; advanced systems and components; passive safety.

ENERGY POLICY AND GLOBAL CONSENSUS

Policy development; international and regional cooperation; energy mix; safeguards; sustainability; climate change; addressing public acceptance; education; communications; outreach.

COMPETITIVE CHALLENGES AND COST REDUCTION

Design and construction; manufacturing and modularity; economics and financing; supply chain assurance; market and competitive challenges.

OPERATIONS AND AGING MANAGEMENT

Operating experience; maintenance; operational risk assessment; outage management; fuel and equipment performance; equipment reliability enhancement; on-line condition monitoring; obsolescence; component replacement; supply chain.

ENHANCING SAFETY & SECURITY

Severe accidents; accident management and analysis; emergency planning; plant security; safety culture; stress-testing; criticality safety analysis; probabilistic risk assessment; regulatory perspective; nuclear security; non-proliferation

ENVIRONMENTAL PROTECTION & WASTE MANAGEMENT

Designing for environmental protection; assessment of environmental effects; decommissioning and environmental remediation; waste stream management and reduction; progress in repository development; interim used fuel storage strategies; waste treatment, packaging and transportation.

NEW TECHNOLOGY AND RESEARCH & DEVELOPMENT

Advanced reactor physics, radiation physics; thermal hydraulics; fusion; hydrogen production; materials science for new and existing designs; efficiency enhancements; space, mining and other novel applications; new nuclear codes and standards.

FUEL CYCLES

Uranium and thorium mining, milling, refining, conversion and enrichment; uranium and thorium fuel manufacturing; fault-tolerant fuel designs; open and closed fuel cycles; proliferation-resistant fuels.

MEDICAL & BIOLOGICAL BENEFITS

Medical and biological systems; treatments and protocols; new isotope manufacture; novel accelerators and target development; supply assurance; handling waste streams; economics; international trends; isotope production and use; agricultural applications.