

ASME CONFERENCE PROCEEDINGS

Every year, more than 20,000 authors from across all continents share their research with colleagues throughout the world by presenting papers at ASME conferences. The demand to publish new research is such that it has raised the status of conferences as the first venue for presentation and subsequent publication.

Taking this into account, ASME's primary commitment is to maintain the integrity and quality of conference proceedings publishing for which it has become known.

Annually, ASME sponsors between 20-30 conferences internationally and publishes approximately 100 peer-reviewed proceedings volumes per year.

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Content now also includes Standards conferences.

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- More than 1,700 volumes
- More than 140,000 papers
- More than 1,140,000 pages

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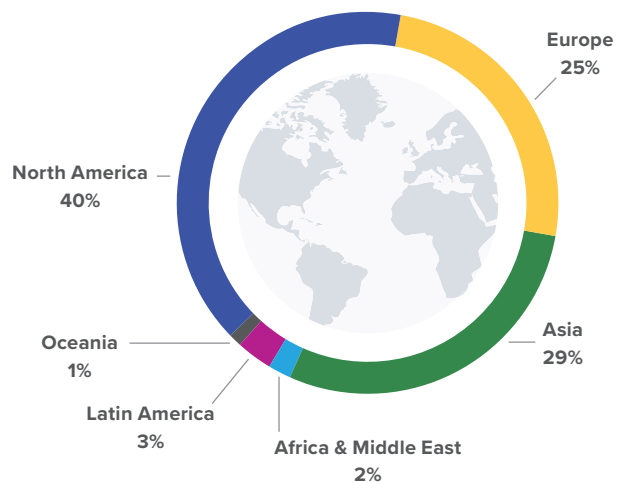
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CONFERENCE PROCEEDINGS AUTHORS PER REGION

In 2018, close to 20,000 conference authors submitted papers for presentation at ASME conferences, reflecting the following geographic distribution:



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MULTIDISCIPLINARY



International Mechanical Engineering Congress and Exposition (IMECE)

Proceedings of IMECE cover cutting-edge engineering research and applications in all mechanical engineering disciplines including aerospace, manufacturing, biomedical and biotechnology, dynamics and control, energy, fluids engineering, heat transfer, mechanics of solids, structures, and fluids, acoustics, micro- and nanosystems, transportation, and emerging technologies.

(Content from 2002 to current year as becomes available)

AEROSPACE

CANEUS: MNT for Aerospace Applications (CANEUS)

Focused on micro-nanotechnology (MNT) development for aerospace applications, the proceedings feature emerging MNT concepts, MNT system development, and end user needs and perspectives.

(Content for 2006)

BIOMEDICAL AND BIOTECHNOLOGY

ASME Conference on Frontiers in Medical Devices: Applications of Computer Modeling and Simulation (FMD)

Proceedings cover computational modeling, imaging and simulation, novel computational methods, and patient-specific modeling.

(Content for 2013)

Design of Medical Devices Conference (DMD)

The DMD Conference brings together medical device designers, manufacturers, researchers, and representatives from academia and the public sector.

(Content from 2017 to current year as becomes available)

Frontiers in Biomedical Devices (BIOMED)

Proceedings of the BIOMED Conferences cover the latest developments in biomedical devices and clinical practices in the areas of cardiovascular, orthopedics, and advanced technology.

(Content from 2006-2011)

Summer Bioengineering Conference (SBC)

Focused on cutting-edge research in the fields of biomechanics, design, and rehabilitation, the proceedings feature papers on biotransport, human dynamics, fluids, tissue engineering, and other solid mechanics topics.

(Content from 2007-2013)

DESIGN

Engineering Systems Design and Analysis (ESDA)

Focused on engineering and related disciplines, ESDA Conference Proceedings feature technical papers ranging from theoretical developments through to industrial applications and case studies.

(Content from 2004-2014/biennial)



International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE)

Proceedings of the IDETC/CIE Conferences feature cutting-edge research and accomplishments related to design concepts of machining, reliability, and manufacturability,

and the application of computer simulation to the engineering process.

(Content from 2002 to current year as becomes available)

Verification and Validation Symposium (VVS)

This unique event brings together engineers and scientists from a wide array of disciplines that practice verification, validation, and uncertainty quantification (VVUQ) in their computational modeling and simulation. Papers discuss ideas and methods from leading experts for verification of codes and solutions, simulation validation, and assessment of uncertainties in mathematical models, computational solutions, and experimental data.

(Content from 2008 to current year as becomes available)

DYNAMIC SYSTEMS AND CONTROL

Dynamic Systems and Control Conference (DSCC)

Conference Proceedings of the DSCC concentrate on control methods and devices – from servomechanisms and regulators to automatic controls – for dynamic systems involving forces, motion, and/or the flow of energy or materials.

(Content from 2008 to current year as becomes available)

FLEXIBLE AUTOMATION

International Symposium on Flexible Automation (ISFA)

Proceedings cover topics in advanced manufacturing automation technologies essential to meeting industry's needs in flexibility, intelligence, lead-time reduction, lean manufacturing in emerging areas such as nanomanufacturing, biomanufacturing, energy manufacturing, sustainable design and manufacturing, automotive and consumer electronics, information technology, biomedical technology, aerospace and transportation systems, renewable energy systems, etc.

(Content for 2012)

CONFERENCE PROCEEDINGS

FLUID POWER SYSTEMS AND TECHNOLOGY

Fluid Power and Motion Control (FPMC)

Proceedings from the FPMC Conferences focus on advances in the design and analysis of fluid power components, such as hydraulic and pneumatic actuators, pumps, motors and modulating components, in various systems and applications.

[\(Content from 2013 to current year as becomes available\)](#)

Fluid Power Net International Symposium (FPNI)

This FPNI Symposium provides a forum for scientists from all over the world, from both academia and industry, to exchange ideas and opinions on current research and future developments in fluid power technology.

[\(Content for 2014 and 2016\)](#)

FLUIDS ENGINEERING

AJK Joint Fluids Engineering (AJKFLUIDS)

Proceedings of this global collaboration in advanced fluids engineering address areas of convergence of fluid dynamics and mechanical engineering including the scientific method of exploration and generation of petroleum and natural gas, innovative mechanical and chemical processes for production of non-organic fluid material in production units, and comprehensive evaluation of diverse aspects of fluid mechanics such as multiphase fluid flows, liquid-solid flows, measurement methods of fluids, and instruments and tools used for analysis of fluid behavior.

[\(Content for 2011, 2015, and 2019\)](#)

Fluids Engineering Division Summer Meeting (FEDSM)

Proceedings of the FEDSM Conferences feature technical papers on topics in fluid mechanics including pumping machinery, liquid-solid flows, and environmental applications.

[\(Content from 2002 to current year as becomes available\)](#)

HEAT TRANSFER

ASME/JSME Thermal Engineering Joint Conference (AJTEC)

Content of this AJTEC Conference focuses on efforts to integrate thermal engineering with other disciplines and to broaden perspective to include a broad range of time scales (from ultra-rapid to long term) and length scales (from nanoscale to global).

[\(Content for 2011\)](#)

Heat Transfer Summer Conference (HT)

Proceedings cover cutting-edge research in thermal science and engineering and related areas such as heat transfer in energy systems, aerospace heat transfer, gas turbine heat transfer, and others.

[\(Content from 2003-2005, 2007-2009, 2012-2013, 2016-2017, and 2019\)](#)

International Heat Transfer (IHTC)

Proceedings content ranges from fundamentals of thermal phenomena and traditional thermal applications to the emerging domains of thermal transport in nanomaterials, biosystems, power generation, MEMS, microsystems, information systems, energy conversion devices, aerospace and hostile environment systems.

[\(Content for 2010\)](#)

INFORMATION STORAGE AND PROCESSING SYSTEMS

Information Storage and Processing Systems (ISPS)

Papers presented cover interdisciplinary research and application topics related to information storage and processing systems.

[\(Content from 2013-2014 and 2016-2019\)](#)

INTERNAL COMBUSTION ENGINE

Internal Combustion Engine Division Fall Technical Conference (ICEF)

Covering topics related to internal combustion engines such as engine design and lubrication, ICEF brings together members of industry, government, and academia to discuss the latest in the field.

[\(Content from 2002-2007 and 2009 to current year as becomes available\)](#)

Internal Combustion Engine Division Spring Technical Conference (ICES)

Proceedings of the ICES Conferences feature technical papers focused on the design, development, and application of compression-ignition, spark ignition, rotary, and reciprocating engines.

[\(Content from 2002-2003, 2005-2009, and 2012\)](#)

MANUFACTURING

International Manufacturing Science and Engineering Conference (MSEC)

Proceedings of the MSEC Conferences highlight cutting-edge manufacturing research in materials, processing, properties, applications and systems, and micro- and nanotechnologies.

[\(Content from 2006 to current year as becomes available\)](#)

MATERIALS SYSTEMS AND ADAPTIVE STRUCTURES

Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS)

Proceedings of the SMASIS Conferences highlight the latest in smart materials, the cutting edge in adaptive structure applications, and the recent advances in device technologies.

[\(Content from 2008 to current year as becomes available\)](#)

MICROTECHNOLOGY AND NANOTECHNOLOGY

Energy Nanotechnology International Conference (ENIC)

Papers from the ENIC Conferences cover state-of-the-art research and development in energy-related materials, nanoscale phenomena, devices, systems, manufacturing, and commercialization.

[\(Content for 2007 and 2008\)](#)

Global Congress on NanoEngineering for Medicine and Biology (NEMB)

NEMB Proceedings focus on the integration of engineering sciences, mechanical engineering, and nanotechnology to address problems in biology and medicine in order to develop devices for the early detection and cure of diseases.

(Content for 2010 and 2013)

Integrated Nanosystems: Design, Synthesis, and Applications (NANO)

Aimed at furthering the development of nanotechnology, proceedings of the NANO Conference focus on the state of the art in devices and systems, nanoscale phenomena, and nanomanufacturing.

(Content for 2004 and 2005)

International Conference on Integration and Commercialization of Micro and Nanosystems (MNC)

Papers from the MNC Conferences focus on state-of-the-art R&D in micro- and nanoscale phenomena, devices, systems, manufacturing, as well as on the commercialization of micro- and nanotechnologies.

(Content for 2007 and 2008)

International Conference on Micro/Nanoscale Heat Transfer (MNHT)

Focused on state-of-the-art R&D in micro/nanoscale heat transfer, proceedings of MNHT cover topics such as micro/nanofluidics, nanofluids, biomicrofluidics, boiling, and evaporation heat transfer.

(Content from 2008-2009, 2012-2013, 2016, and 2019)

International Conference on Nanochannels, Microchannels, and Minichannels (ICNMM)

Technical papers presented at the ICNMM Conferences are focused on identifying research needs in nanochannels encompassing engineering, MEMS, microfluidics, biomedicine, and many other frontier research disciplines.

(Content from 2003 to current year as becomes available)

International Electronic Packaging Technical Conference and Exhibition (InterPACK)

Focused on R&D, manufacturing, and application for packaging and integration of electronic and photonic systems, MEMS, and NEMS, the proceedings cover the latest research and emerging technologies.

(Content from 2003 to current year as becomes available/biennial)

Multifunctional Nanocomposites and Nanomaterials International Conference (MN)

Focused on highlighting the importance of nanotechnology applications in mechanical engineering, the proceedings from this conference cover topics such as fabrication, design, and modeling of nanocomposites and nanomaterials.

(Content for 2006 and 2008)

NOISE CONTROL AND ACOUSTICS

Noise Control and Acoustics Division Conference (NCAD)

Devoted solely to noise control and acoustics, proceedings of the NCAD Conferences highlight the latest research in this emerging field.

(Content for 2008, 2012, 2015, and 2018)

NUCLEAR ENERGY AND TECHNOLOGY

High Temperature Reactor Technology (HTR)

Proceedings of the HTR Conference are focused on identifying essential requirements needed to manage the implementation of HTR technology and discover uses of HTR beyond nuclear power.

(Content for 2008)



International Conference on Nuclear Engineering (ICONE)

Proceedings of this global conference address the needs of the nuclear industry and cover the latest nuclear technology applications and innovations.

(Content for 2002, 2004, 2006, 2008-2010, 2012-2014, and 2016-2018)

International Conference on Radioactive Waste Management and Environmental Remediation (ICEM)

Papers from the ICEM Conferences focus on technologies, operations, management approaches, economics, and public policies in the areas of environmental remediation and radioactive waste management.

(Content for 2003, 2007, 2009-2011, and 2013)

Nuclear Forum (NUCLRF)

Nuclear Forum technical papers cover the most recent developments in the nuclear power industry comprising plants, operations, safety and security, materials and structures, modeling and simulations, advanced reactor concepts, thermal hydraulics and computational fluid dynamics, materials, structures, and components.

(Content for 2015, 2017, and 2018)

Small Modular Reactors Symposium (SMR)

Proceedings topics address the technical, business, and regulatory issues for the deployment of small modular reactors, including technical details for bringing SMRs from design concept into fabrication and building.

(Content for 2011 and 2014)

CONFERENCE PROCEEDINGS

OCEAN, OFFSHORE, AND ARCTIC ENGINEERING



International Conference on Ocean, Offshore, and Arctic Engineering (OMAE)

Proceedings of the OMAE Conferences feature topics in offshore technology, structures, safety and reliability, materials technology, pipeline and riser technology, and ocean space utilization. [\(Content from 2002 to current year as becomes available\)](#)

PIPELINE ENGINEERING

India Oil and Gas Pipeline Conference (IOGPC)

IOGPC Proceedings present research results, new developments, and encourage new initiatives in the oil and gas industry in India. Areas of impact include design and construction, pipeline materials, integrity management, health, safety, and environment.

[\(Content from 2013 to current year as becomes available/biennial\)](#)

International Pipeline Conference (IPC)

Papers from the IPC Conferences cover topics in production pipelines, design and construction, database development, facilities integrity management, operations, and maintenance.

[\(Content from 1996 to current year as becomes available/biennial\)](#)

International Pipeline Geotechnical Conference (IPG)

The IPG Conference is an international event to promote knowledge sharing, technological progress, and international cooperation for advancing the management of natural forces impacting pipelines with the intent of protecting the public, environment, energy infrastructure assets and ensure safe and reliable operations.

[\(Content for 2013, 2015, 2017, and 2019/biennial\)](#)

POWER AND ENERGY

Energy Sustainability (ES)

Proceedings of the Energy Sustainability Conferences cover cutting-edge research in solar and other renewable energy, energy efficiency, fuel cells, and advanced energy technologies.

[\(Content from 2007 to current year as becomes available\)](#)

Engineering Technology Conference on Energy (ETCE)

Broad coverage of energy engineering technologies encompassing alternative energy, composite materials, offshore technology, plant engineering, structural dynamics, and more are featured.

[\(Content for 2002\)](#)

International Conference on Fluidized Bed Combustion (FBC)

Proceedings papers feature cutting-edge research in fluidized bed combustion technology developments and their applications and cover topics such as sustainable fuels, operations, and the environment.

[\(Content for 2003 and 2005\)](#)

International Conference on Fuel Cell Science, Engineering and Technology (FUELCELL)

Technical papers presented at the FUELCELL Conferences cover topics in solar and other renewable energy, fuel cells, and advanced energy technologies.

[\(Content from 2003 to current year as becomes available/excludes 2007\)](#)

International Joint Power Generation Conference (IJPGC)

Proceedings topics include components, plants and design engineering, operations, maintenance and reliability, combined cycles, turbines and generators, fuels, combustion and emissions, and advanced energy systems.

[\(Content for 2002 and 2003\)](#)

International Solar Energy Conference (ISEC)

Technical papers from the ISEC Conferences cover research results, new developments, and novel thermal and mechanical concepts in the area of solar and renewable energy technologies.

[\(Content from 2002-2006\)](#)

NEW CONTENT

International Offshore Wind Technical Conference (IOWTC)

Papers presented at this conference draw from members of the scientific community, researchers, academia, and the offshore wind engineering industry from around the world. Organized around scientific and project development tracks, topics cover fixed and floating offshore concepts, mooring and foundations, turbines modeling, and more.

[\(Content from 2018 to current year as becomes available\)](#)

North American Waste-to-Energy Conference (NAWTEC)

Papers from the NAWTEC Conferences cover topics related to municipal waste-to-energy, combustion engineering science, and emerging waste conversion and processing technologies.

[\(Content from 2002-2013\)](#)

Power Conference (POWER)

Focused on latest technologies to improve how power plants operate, the proceedings cover topics including fuels, steam generators, heat exchangers, turbines, and plant operations and maintenance.

[\(Content from 2004 to current year as becomes available\)](#)

Wind Energy Symposium (WIND)

These proceedings focus on wind turbine aerodynamics, materials and manufacturing, load and fatigue analysis, controls and structural analysis, and inflow, acoustic noise, and power.

[\(Content for 2002 and 2003\)](#)

PRESSURE VESSELS AND PIPING



Pressure Vessels and Piping Conference (PVP)

Proceedings of the PVP Conferences cover topics such as Codes and Standards and design and analysis related to pressure vessel and piping technologies for the power and process industries.

[\(Content from 2002 to current year as becomes available\)](#)

RAIL TRANSPORTATION

Joint Rail Conference (JRC)

Encompassing all aspects of rail transportation and engineering research, proceedings of the JRC cover topics that include railroad infrastructure engineering, rail equipment engineering, and planning and development.

(Content from 2006 to current year as becomes available)

Rail Transportation Division Conference (RTD)

Focused on the current state and challenges of the rail transportation industry, papers from this conference cover topics such as track and equipment health monitoring, advanced risk reduction data analysis, and more.

(Content from 2003, and 2007-2013)

TRIBOLOGY

International Joint Tribology Conference (IJTC)

Proceedings of the IJTC Conferences cover topics such as nanotribology, biotribology, engineered surfaces, boundary lubrication, fluid film lubrication, machine components tribology, and contact mechanics.

(Content from 2002-2012/excludes 2005)

World Tribology Congress (WTC)

Focused on nanotribology and its role in the fast-growing area of nanotechnology, papers from the WTC Conference cover related technologies such as tribochemistry, additives, materials, surface engineering, and aerospace.

(Content for 2005)

TURBOMACHINERY

Gas Turbine India Conference (GTINDIA)

Authors and presenters participate in this event to exchange ideas on research, development, and best practices on gas turbines and allied areas. Authors and presenters include the industry's leading professionals and key decision makers, whose innovation and expertise are shaping the future of turbomachinery.

(Content from 2012-2015, 2017/biennial as becomes available)

Turbine Blade Tip Symposium (TBTS)

Multidisciplinary content from this conference addresses the current state of the art in the design, analysis, and improvement of turbine blade tips. A major area of focus is the issue of blade tip burnout. Current proposals on enacted solutions are presented along with studies and industry input that provide insight into physics challenges.

(Content for 2013)

Turbo Expo: Turbomachinery Technical Conference and Exposition (GT)

Turbo Expo Proceedings papers cover the latest in the design, manufacture, and operation of gas turbine and aeroengine machinery in various applications in aircraft, marine, and electric power generation.

(Content from 1956 to current year as becomes available)

VIRTUAL REALITY

World Conference on Innovative Virtual Reality (WINVR)

Proceedings of the WINVR Conferences focus on the current challenges in the use of VR to solve industrial problems, barriers to developing VR, cost-benefit analysis, and future trends.

(Content from 2009-2011)

WATER

Water Quality, Drought, Human Health and Engineering Conference (WATER)

Proceedings from this WATER Conference cover the latest information regarding plans for improving the quantity and quality of water, the impact on human health and engineering, and current regulation and policies.

(Content for 2006)

PUBLIC ACCESS CONFERENCE PROCEEDINGS

ASME Citrus Engineering Symposium (CES)

This symposium focuses on current-day technical issues that strengthen the industry and promote the continuing improvement of citrus products.

(Content from 1955-2010, 2012, and 2014)

ASME/NRC Pump and Valve Symposium (PVS)

PVS presents comprehensive coverage of the latest issues, technology developments, and research in the preservice and in-service testing of nuclear power plants and components and how these developments are being considered by the ASME/NRC O&M Code Committees.

(Content for 2017)

ASME Symposium on Elevated Temperature Application of Materials for Fossil, Nuclear, and Petrochemical Industries (ETAM)

Presentations focus on the design, fabrication, and construction practices of pressure equipment such as boilers, pressure vessels, and piping components that will operate at elevated temperatures where materials are subject to creep, creep-fatigue, embrittlement, and environmental effects.

(Content for 2014 and 2018)

ASME-USCG Workshop on Marine Technology and Standards (MTS)

Topics range from technological impact on the marine industry to corresponding coverage in related Codes and Standards and government regulations.

(Content for 2010, 2013, and 2017)