



TURBOMACHINERY & PUMP SYMPOSIA | HOUSTON, TX

AUGUST 20-22, 2024

SHORT COURSES: AUGUST 19, 2024

GEORGE R. BROWN CONVENTION CENTER | HOUSTON, TEXAS



Do you have machinery
knowledge to share?

Answer the 2024

**CALL FOR
PAPERS**



53RD TURBOMACHINERY & 40TH PUMP SYMPOSIA

AUGUST 20 - 22, 2024

SHORT COURSES: AUGUST 19

[TPS.TAMU.EDU/PROGRAM](https://tps.tamu.edu/program)

THE TURBOMACHINERY LABORATORY IS SOLICITING 1-3-PAGE DETAILED ABSTRACTS FOR LECTURES, TUTORIALS, CASE STUDIES AND SHORT COURSES TO BE PRESENTED AT AND PUBLISHED IN THE PROCEEDINGS OF THE 53RD TURBOMACHINERY & 40TH PUMP SYMPOSIA.

OCTOBER 27, 2023

Abstracts Deadline

MARCH 7, 2024

Manuscript due to Monitor for Review

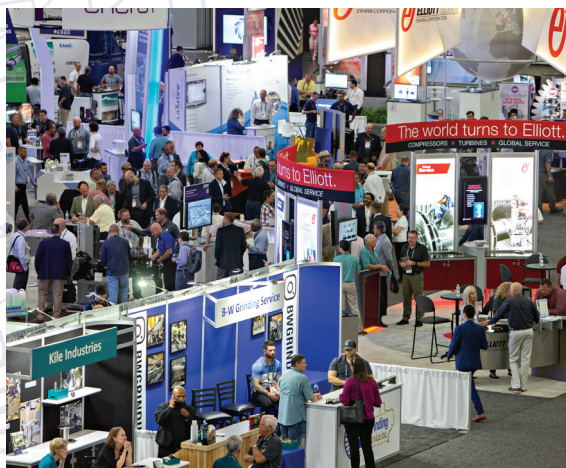
MARCH 26, 2024

Full Manuscript, Short Course Titles, Authors and Outlines Due in System

JUNE 3, 2024

Final, Monitor-Approved Manuscript and Author Forms Due

TPS 2024 CALL FOR PAPERS



ABOUT THE TURBOMACHINERY AND PUMP SYMPOSIA

The Turbomachinery Symposium was founded in 1972 to provide an opportunity for interested persons to learn the applications and principles of various types of turbomachinery and related subjects, to enable them to keep abreast of the latest developments in this field, and to provide a forum for the exchange of ideas. The Pump Symposium was founded in 1984, and joined with the Turbomachinery Symposium in 2011 to form a singular event, the Turbomachinery & Pump Symposia (TPS).

The technical program for TPS is selected by the Turbomachinery Advisory Committee (TAC) and the Pump Advisory Committee (PAC). The advisory committees are made up of dedicated industry experts who volunteer their time to oversee the success of the symposia. Advisors solicit and accept or reject abstracts submitted to the symposia.

Accepted submissions are monitored and reviewed by committee members until they are ready for presentation at the symposia, and/or publication in the symposia proceedings.

The TPS advisory committees cordially invite you to submit an abstract to the 2024 symposia!

SUBMISSION CATEGORIES

GENERAL GUIDELINES

Papers must be free of commercialism. References to commercial products, trade names, and manufacturing companies must be avoided. Be mindful of who your audience is: the end user. Previously published works will not be accepted. Submissions should have been factory or field tested and share practical – not only theoretical – information.

Lecture: A Lecture is a presentation of a technical paper detailing innovative turbomachinery or reciprocating compressor technology or methodology. The work should clearly state the advantage/impact on operational equipment for the practicing engineer. A lecture presentation is 45 minutes long consisting of 30 to 40 minutes of presentation reserving at least 5 minutes for questions and discussion. The lecture paper will be published as a part of the proceedings. End user participation in the lecture is encouraged.

Tutorial: A Tutorial is a mini short course/workshop presenting a specific technical topic. It is a teaching process directed at the practicing engineer. Presenters are encouraged to bring in equipment for hands-on instruction. Tutorials are allocated 90 minutes and consist of 70 to 80 minutes of presentation reserving at least 10 minutes for questions and discussion. Authors are required to create a tutorial paper and presentation. The tutorial paper will be published as a part of the proceedings.

Case Study: A Case Study is a short informational presentation describing the successful implementation of established technology or methodology to solve a real-world problem. Case studies concisely relate a Problem, its Solutions, and the Lessons Learned. Each invited case study is allocated 20 minutes and consists of up to 15 minutes for the presentation reserving at least 5 minutes for questions and discussion. End user participation in the case study is strongly encouraged. The case study will be published as a part of the proceedings in pdf format.

Short Course: A Short Course is a full-day training session presented concurrently with other short courses on the first day of the Symposia. Short Courses run from 8:30 am to 5:00 pm with a 75-minute luncheon and two 30-minute breaks.

AREAS OF INTEREST

Abstract categories listed below are of interest to the Turbomachinery and Pump Symposia. Along with the listed categories, authors are also encouraged to propose new ideas that could be of interest.

ALIGNMENT	COUPLINGS	Off-Design Behavior
ANCILLARY EQUIPMENT	Flexible Element	Range
Baseplates	Fluid	Rotating Stall
Condition Monitoring	Variable Speed	Surge
Controls	DESIGN AUDITS	PRESERVATION PUMPS
Filtration	DIAGNOSTICS	REAPPLICATION
Foundations	DIGITALIZATION	RELIABILITY
Governors	Augmented Reality/Virtual Reality	REPAIR
Instrumentation	Automation	RE-RATES
Lubrication Systems	Data Analytics (Predictive/Statistical)	ROOT CAUSE ANALYSIS
Machinery Protection Systems	DRIVERS	ROTORDYNAMICS
Piping	Electric Motor	Critical Speed
Sealing Systems	Gas Turbine	Lateral
APPLICATIONS	Steam Turbine	Torsional
Acid Gas	Variable Speed Drives	Stability
Ammonia	EQUATIONS OF STATE	Stability Test/Measurement
Chemical	EXPANDERS	SEALS
High Pressure	Hot-Gas Expanders	Brush
LNG	Turboexpanders	Dry Gas
Pipeline	FANS	Hole-pattern/Honeycomb
Power Generation	GEARS	Labyrinth
Refining	GENERATORS	Mechanical
Sour Gas (High CO ₂ and/or H ₂ s)	INSPECTION	Packing
Subsea	INSTALLATION	Wet
Transport	MAINTENANCE	SPECIFICATIONS
Wet Gas	MATERIALS AND MANUFACTURING	TESTING
BALANCING	Additive Manufacturing	Field Testing
BEARINGS	Coatings	Performance Testing
Fluid Film	Corrosion	Shop Testing
Gas	Metallurgy	THERMODYNAMICS
Magnetic	Wear	VIBRATION
Rolling Element	Welding	Diagnostics
BLADED DISKS AND IMPELLERS	OPERATION AND PERFORMANCE	Field Vibration
COMPRESSORS	Cavitation	Lateral Shaft Vibration
Axial	Choke	Subsynchronous Shaft Vibration
Centrifugal	Efficiency	Torsional Vibration
Integrally Geared	Noise	Vibration Monitoring
Reciprocating		
Screw		

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THE SUBMISSION PROCESS

ROUND 1: ABSTRACTS

SUMMER 2023

Call for papers is opened.
Abstracts are solicited

OCTOBER 2023

Abstracts, 1-3 pages in length, are due **Friday, Oct. 27, 2023**. Include as much detail regarding what you intend to present in your final paper. Which type you intend to submit (lecture, tutorial, case study, short course) should be written in the abstract, preferably in the title as such, "Tutorial: Title...", but is not required.

NOVEMBER 2023

The committees meet in November of each year to review the abstracts and choose which topics seem most applicable to TPS for the manuscript round.

DECEMBER 2023

Authors will be notified in December whether their abstract has been accepted to the manuscript round. A monitor will be assigned to each author at this time to help in the next stages of submittal, and to guide the author to ensure each paper or presentation fits within the parameters required at TPS. Letters will include constructive criticism from the committees and indicate which session type (lecture, tutorial, case study, etc.)

they would like to see as a manuscript.

ROUND 2: MANUSCRIPTS

MARCH 2024

Of the abstracts selected by the committee, a written manuscript (for Lectures and Tutorials) or a PowerPoint presentation (Case Studies) will be required from authors by **Monday, March 7, 2024**. Manuscripts must fit Turbo Lab guidelines and be approved by the author's monitor before they are submitted to the Turbo Lab. Guidelines can be found here: <https://tps.tamu.edu/program/authors-presenters/>. Templates, when available, will also be found at that link. At this point, the paper or presentation should be as close to a final product as possible, since the next deadline for final publication will be within a narrow window.

APRIL 2024

The committees will meet in mid-April to decide which manuscripts will be presented and published at the symposia.

MAY 2024

Decision letters from the April committee meetings will be sent to authors in early May. This letter will provide the final decision of publication at the symposia.

JUNE 2024

Final, monitor-approved submissions for TPS 2024 are due **June 3, 2024**. Registration and hotel information for authors are available by June of each year. Copyright questions can be referred to ashton@turbo-lab.tamu.edu.

SEPTEMBER 2023

The 53rd Turbomachinery & 40th Pump Symposia (TPS 2024) is set for **August 20 - 22, 2024**. Short courses, held in conjunction with the symposia, are set for **August 19**.

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**FOR FULL GUIDELINES AND TO SUBMIT AN
ABSTRACT VISIT:**

[TPS.TAMU.EDU/PROGRAM](https://tps.tamu.edu/program)

Files will be accepted in Adobe Acrobat PDF only,
Faxed or mailed submissions will not be accepted.

Questions? Contact Ashton Drollinger at ashton@turbo-lab.tamu.edu or 979-845-7417. Contact Debbie Maggs at Debbie@turbo-lab.tamu.edu for Short Courses.

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