

## Global Power & Propulsion Society



### CHAIRMAN'S REPORT

On behalf of the Executive Committee of the Global Power and Propulsion Society (GPPS), I would like to share with you some exciting news about our growing society.

We are delighted to inform you that our new open-access journal, The Journal of the Global Power and Propulsion Society, has just been launched. The Founding Editor-in-Chief is Prof. Howard Hodson.

From the 16th to 18th of January 2017 in Zurich, GPPS held its inaugural Forum with over 250 attendees from around the world. This new start incorporated about 100 peer-reviewed papers with 4 panel sessions and discussion groups. We had a number of thought provoking keynote addresses from a number of executives from industry. There were also ample opportunities to meet friends and make new contacts in our opening ceremony as well as our fabulous Gala dinner. GPPS Forum17 was generously sponsored by 10 global corporations, including MHPS, Siemens, Doosan as Platinum and Gold sponsors. We are grateful to the support of our sponsors.

GPPS is organising a number of new regional and specialty conferences. In the coming 14 months, we will have 3 events in 3 continents. These events are being organized by local teams together with the staff and volunteers at the headquarter, ensuring a more dependable quality control. Our Asian conference will kick off these events from the 30th of Oct to 1st of Nov 2017 in the beautiful and vibrant city of Shanghai. Given the rapid growth of

Asia in the area of turbomachinery research, we expect a well attended conference with many peer-reviewed papers from around Asia. Our marquis-event GPPS Forum will again be held in Zurich from 10th to 12th of January 2018. This is followed by our first North American event, being held in Montreal from 7th to 9th of May 2018. We would like to welcome you all to participate in these exciting professional events.

As a not-for-profit volunteer-led organization, GPPS fosters an equal balance between industry and academia/research institutions. With its own professional staff, GPPS aims to create an environment that supports the development of basic science and technology for application in industry and society as a whole, while leading the changes in the world around us. In the coming months, we will communicate with you a number of new initiatives related to our outreach and community building, so please keep tuned in.

Sincerely,



Reza Abhari,  
Chairman of Executive committee

## The Global Power and Propulsion Society launches new Journal

The Global Power and Propulsion Society (GPPS) is pleased to announce the launch of The Journal of the Global Power and Propulsion Society. It promises to be a much needed addition to the power generation and propulsion community and is the first to be launched by the GPPS.

The Journal is an online, open access journal so all of the published articles will be free to download at the click of a button.

Howard Hodson, Vice-Chair of the GPPS and Editor of the new journal said: "Our new journal has been developed in response to a real need by our community. I am pleased to be working with a distinguished group of Associate Editors, all of whom are key figures within their respective fields of expertise". He added "Journals published by societies provide an independent voice for our community. Traditional journals have their drawbacks but advances in technology and a demand from the community have fuelled an appetite for change. The GPPS is embracing this new technology by lowering costs and reducing time to publication. This is an exciting opportunity for our community."

Authors can now upload their papers to the Editorial Web Tool of the Journal. This can be found at: <https://www.editorialsystem.com/jgpps>

Information on the submission process and well as preparing the manuscript for publication can be found by clicking on the tab marked "Instructions for Authors". This link will take you to a part of the Journal web site

where you will find the "Author Guidelines". Further information, can also be found there including that on copyright and licences.

The home page for the Journal is [www.journal.gpps.global](http://www.journal.gpps.global)

Being an Open Access publication, the GPPS receives no revenue from the Journal. However, papers that have previously been published at a refereed GPPS Forum or Conference will not incur an Article Processing Charge (APC) providing that there are no excess pages. All other papers will incur a small APC. Information on these charges can be found on our website.



**CONTACT:** Prof Howard Hodson, Editor-in-Chief, Global Power and Propulsion Society, [hph1000@cam.ac.uk](mailto:hph1000@cam.ac.uk)

## Recent Events

# INAUGURAL GPPS FORUM ZURICH 17



On behalf of the Global Power & Propulsion Society, we want to thank all those who attended the 1st Annual GPPS Forum held on January 16-18, 2017 in Zurich, Switzerland.

The Forum covered the broad topics of Global Technologically Driven Innovation from a Business Perspective, Additive/Advanced Manufacturing as well as Digitalization. The three-day event proved an excellent occasion to meet with colleagues from all over the world, creating many opportunities for networking, collaboration, and building of trusting relationships. We are grateful to our industrial sponsors whose support has been essential in bringing you this Forum.

We believe that our diverse and dynamic group of speakers and panelists provided in-depth insight, helping

make this event a great success, and your enthusiasm and positive attitude helped make our time together both productive and enjoyable.

We also wish to thank those of you who took the time to provide us with your valuable feedback. Your comments and suggestions have each been given consideration so that future conferences and events will be even more of a success.

We wish you all the best and look forward to your continued support.

[Visit GPPS Recent Events  
Zurich Forum 2017: Gallery](#)

[Visit GPPS Recent Events  
Media: Opening Ceremony](#)



## Future Events

# GPPF Shanghai 2017

The Global Power and Propulsion Forum: Shanghai 2017 will be held at the Shanghai Jiao Tong University between October 30 and November 1, 2017. This event is the GPPS's first regional conference and represents the GPPS's global outreach efforts. This year, it focuses on Asia and the Middle East, but participation from all corners of the world are welcome.

The Forum will cover all aspects of turbomachinery, including but not limited to the following topics – radial and axial compressors and turbines, combustors and combustion, heat transfer, structure and mechanics, unsteady flows, acoustics, materials and manufacturing, controls, diagnostics, and instrumentation.

### Executive Forum Chair

**Jinzhong Feng**

AECC Commercial Aircraft  
Engine Co., Ltd.

### Forum Co-Chairs

**Toshinori Watanabe**

The University of Tokyo

**Seung Jin Song**

Seoul National University

### Review Chair

**Li He**

Oxford University

### Review Co-Chair

**Howard Hodson**

Cambridge University

### Program Chair

**Ying Shi**

AECC CAE

### Local Organizing Committee Members

**Honghai Song**

AECC

**Lei He**

Shanghai Electric Gas Turbine  
Co., Ltd.

**Junqiang Zhu**

Chinese Academy of Sciences

**Xin Yuan**

Tsinghua University

**Xingmin Gui**

Beihang University

**Chaohui Du**

Shanghai Jiao Tong University

**Zhenping Feng**

Xi'an Jiaotong University



GPPS will continue to seek opportunities to serve any community with interest in turbomachinery regardless of the geographic region.

## Call for Papers

**Authors are cordially invited to submit papers for the Shanghai Conference. Submission dates are as follows:**

Abstract Extended Submission: 14th April, 17

Acceptance of Extended Abstract: 24th April, 17

Full Paper Submission: 14th June, 17

Acceptance of full paper: 14th July, 17

Visit GPPS Events  
Shanghai Forum Webpage

Visit Shanghai Forum  
Abstract upload platform

## Future Events

# GPPS FORUM ZURICH 18



We look forward to welcoming you back in Zurich on the 10-12 January 2018

**Call for Papers:** April 7, 2017

**Abstract Deadline:** June 30, 2017

**Full Paper Submission:** August 31, 2017

**Revised Paper Submission:** November 15, 2017

[Visit GPPS Events  
Zurich Forum Webpage](#)

## Future Events

# GPPF Montreal 2018



We look forward to welcoming you to the GPPS North America, Montreal Forum on the 7-9 May 2018

Dates for submissions to be announced shortly.

## Fostering Equal Balance Between Industry and Academia/Research Institutions

The GPPS is a new volunteer-led international community and forum for rotating machinery professionals in industry and academia. The society's aim is to provide an environment for professionals to meet and exchange results and ideas, with specific focus on power generation and propulsion systems. Our community has a particular interest in key technologies with application to gas turbines for power generation and aircraft & marine propulsion, steam turbines and wind turbines for energy production, compressors and drive systems for the oil and gas communities, as well as rotating machines for novel cycle applications.

A key purpose of our society is captured in the first word; Global. We will direct GPPS to be a truly global organization with equal participation from North America, Asia and Europe initially. In future, we plan to reach out to other regions of the world to help establish their communities of experts in order to join us. The not-for-profit volunteer-led organization of GPPS will foster an equal balance between industry and academia/research institutions. We aim to create an environment that supports the development of basic science and technology for application in industry and society as a whole, while leading the changes in the world around us. Within GPPS, we intend to actively support existing regional communities and

start new activities to help and support them in providing a higher level of professionalism and technical quality.



### Executive Committee

**Prof. Reza Abhari (Chairman)**

ETH Zurich, Zurich, Switzerland

**Dr. Frank Eulitz**

Power & Gas Division, Siemens, Germany

**Dr. Klaus Brun**

Southwest Research Institute, San Antonio, TX, USA

**Dr. Jin Zhang Feng**

AECC Commercial Aircraft Engine Co., Ltd.  
Shanghai, China

**Prof. Howard Hodson (Vice Chairman)**

University of Cambridge, Cambridge, UK

**Prof. Seung Jin Song (Treasurer)**

Seoul National University, Seoul, South Korea

**Prof. Toshinori Watanabe**

The University of Tokyo, Tokyo, Japan

### Advisory Committee

**Dr Sunao Aoki** (MHI, Japan)

**Prof. Mike Dunn** (OSU, USA)

**Prof. Torsten Fransson** (KTH, Sweden)

**Frank Haselbach** (Rolls Royce, UK)

**Prof. Robert Kielb** (Duke Univ., USA)

**Prof. Lee Langston** (Univ. Connecticut, USA)

**Prof. Knox Millsaps** (ONR, USA)

**Dr. Allan Volponi** (Pratt and Whitney, USA)

**Prof. Thomas Sattelmayer** (TU Munich, Germany)

**Prof. Joerg Seume** (Univ. of Hannover, Germany)

**Vinod Philip** (Siemens, Germany)

**Bernhard Winkelmann** (Solar Turbines, USA)

**Prof. Sigmar Wittig** (KIT, Germany)