



Global Fluid Power Society

Global Fluid Power Society (GFPS)

General Assembly meeting

October 12th, 2022

Important:

- please keep your microphone on mute. Unmute only when you want to speak
- the meeting is being recorded, and it might be made available to GFPS participants

GFPS Participant meeting

Wednesday, October 12th 2022

In attendance:

- Adolfo Senatore (University of Naples, Italy)
- Emma Frosina (University of Sannio Benevento, Italy)
- Luca Romagnuolo (University of Naples, Italy)
- Fabrizio Paltrinieri (University of Modena e Reggio Emilia, Italy)
- Pietro Marani (CNR - STEMS, Italy)
- Rudolf Scheidl (Johannes Kepler University, Austria)
- Eric Bideaux (INSA, France)
- Massimo Rundo (Politecnico di Torino, Italy)
- David Fassbender (Tampere University, Germany)
- Roman Ivantysyn (TU Dresden, Germany)
- Jurgen Weber (TU Dresden, Germany)
- Paolo Casoli (University of Parma, Italy)
- Simone Bulleri (Diplomatic MS, Italy)
- Katharina Schmitz (RWTH Aachen University)
- Petter Krus (Linköping University, Sweden)
- Tatiana Minav (Tampere University, Finland)
- Petri Kuosmanen (Aalto University, Finland)
- Victor J. De Negri (Federal University of Santa Catarina, Brasil)
- Travis Wiens (University of Saskatchewan, Canada)
- Andrzej Sobczyk (University of Technology, Poland)
- Heikki Handroos (Lappeenranta University of Technology, Finland)
- Paolo Tamburrano (University of Bari, Italy)
- Antonella Bonavolontà (University of Naples, Italy)
- Raffaele De Rosa (University of Naples, Italy)
- Pietro Mazzei (University of Naples, Italy)
- Antonio Costanzo (Diplomatic Italy, Italy)

Agenda

1. GFPS in short:
website, participants, structure
2. GFPS in conferences and GFPS awards
3. GFPS PhD Symposium: 2022 and 2024
4. International Journal of Fluid Power
5. GFPS financial status
6. Open discussion - Other topics

GFPS in short

Global Fluid Power Society (GFPS) is a worldwide community of institutes for networking in the area of fluid power and fluid techniques. GFPS's general objectives are to:

- Bring people of the fluid power community “together”
- Provide information about fluid power developments and publications
- Strengthen the standing of fluid power and fluid techniques in industry and academia
- Promote fluid power and fluid techniques as scientific/technical discipline
- Promote collaborative projects and provide information about expertise in the field of fluid power technology
- Promote the exchange of students and researchers among fluid power institutions

GFPS publishes the **International Journal of Fluid Power** and provides literature information on Fluid Power. An important aspect of GFPS is technology transfer via Workshops, Conferences, and Forums.

The Global Fluid Power Society operates as a Non-Profit Corporation, registered in the United States (State of Indiana).

GFPS Participant meeting

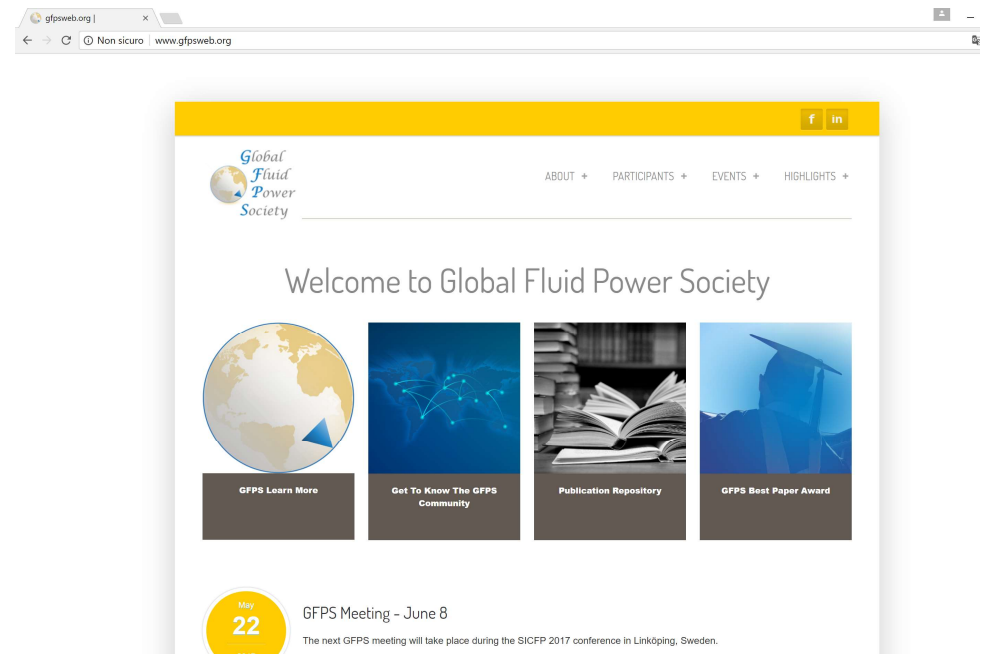
Wednesday, October 12th 2022

GFPS in short

The website is the main communication channel of GFPS (www.gfpsweb.org).

It includes:

- a repository of fluid power papers, including past Bath/PTMC conferences,
- research highlights / job posting
- calendar of fluid power events
- GFPS best paper award recipients
- GFPS participants list and statute



GFPS in short

Like us on Facebook

This is what your Page looks like to a visitor. [Switch back to your view](#) to manage this Page.

Global Fluid Power Society
@gfpsocial

Home
About
Photos
Likes
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GFPS connects people in the Fluid Power field around the world.

Liked Following Share ... Sign Up Message

Featured For You

Get in touch with **Global Fluid Po...** Plan your visit to **Global Fluid Po...**

Organization in Lafayette, Indiana
Always Open

Invite friends to like this Page

Global Fluid Power Society (GFPS) is a worldwide community of institutes for networking in the area of fluid power and fluid techniques.

3 people like this and 5 people follow this

LinkedIn

Global Fluid Power Society
1 update • 10 followers
[Following](#)

Follow us to stay up to date with Global Fluid Power Society.

Global Fluid Power Society
6d

Check out our research highlights! This month: STEAM - Hydraulic Hybrid Architecture for Excavators

 **STEAM - Hydraulic Hybrid Architecture for Excavators**
gfpsweb.org

Like Comment Share

GFPS Statute

Board of directors (BoB)

- 5 directors, four elected by the General Assembly (one vote per institution), 4 years term
- The BoB should include members from the 3 continents: America, Europe, Asia
- The BoB should include no more than two non-academic members
- The BoB includes the Chairman, the Secretary, and the Editor in Chief of the International Journal of Fluid Power (IJFP). The Editor in Chief of the IJFP is one Director (not elected)

Assembly

Open to all participants. Votes on all proposals made by the Board of Directors.

Yearly General Assembly, at an international conference. Place of meeting decided by the BoB.

Proposed voting system: one vote per institutions (not small institution)

Advisory Board

The advisory board is used to provide advise to the Directors.

Every participant (not small institute) can nominate a person for the advisory board

Participants

small institutions / regular institutions

fluid power associations and companies

Current Board of Directors (BoB)

(June 2022 – May 2026)



Jürgen Weber (**Chair**)

Technische Universität Dresden, Germany



Andrea Vacca (**Secretary and Treasurer**)

*International Journal of Fluid Power Editor in Chief
Purdue University, USA*



Emma Frosina

Universita' del Sannio, Italy



Victor De Negri

Univ. of Santa Caterina, Florianopolis, Brazil



Bing Xu

Zhejiang University, China

Board of Directors

Current BoB discussed following structure for GFPS governance for years 2022 - 2026.

- Each director takes one of the roles below

Chair

- Formal representation of GFPS
- Coordination of BoB meetings



Public Relations

- Website updates
- Communication to Participants
- Retention and recruitment of new participants



GFPS Symposium

- Guide local organizers
- Ensure paper publishing
- Assist with paper review



International Journal of Fluid Power (IJFP)

- Role of the Editor in Chief
- Committee formed by the Editorial Board and associate editors
- Special issues
- Strategies for improving journal website and promotion



Award

- GFPS best paper award
- Nomination to external awards
- Creation of new awards?



- Except for the IJFP, roles will be determined after the new BoB is formed
- Each director can establish a committees of GFPS members to help with his functions
- Each director/committee will report to the BoB twice a year 6 months
- Board of Director will report to the General Assembly at least once a year

GFPS Participant meeting

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GFPS in conferences

ICFP 2017 (thanks to Huayong Yang and Songjing Li)

SICFP 2017 (thanks to Petter Krus)

JFPS 2017 (thanks to Kazushi Sanada)

ASME – Bath FPMC 2017 (thanks to Andrea Vacca and Monika Ivantysynova)

IFK2018 (thanks to Hubertus Murrenhoff), 2 awards!

GFPS 2018 - BACKE' MEDAL (thanks to Victor Sverbilov)

ASME – Bath FPMC 2018 (thanks to Andrew Plummer, Nigel Johnston)

FPM 2019 (thanks to Huayong Yang)

SICFP 2019 (thanks to K. Huhtala)

FPMC 2019 (thanks to J. Van de Ven)

FPMC 2020 (thanks to Andrew Plummer, Nigel Johnston)

DVM 2020 (thanks to Victor Sverbilow)

IFK 2020 (thanks to Jürgen Weber)

GFPS 2020 - BACKE' MEDAL (thanks to Songjing Li)

JFPS 2020 (thanks to Hideyuki Tsukagoshi)

ICFP 2021 (thanks to Huayong Yang and Feng Wang)

ASME – FPMC 2021 (thanks to Perry Li, Nigel Johnston)

IFK 2022 (thanks to Katharina Schmitz)

Bath ASME 2022 (thanks to Nigel Johnston)

GFPS 2022 - BACKE' MEDAL (thanks to Emma Frosina and Ad

Note:

GFPS participation to conferences always to be approved by the Board of Directors

GFPS awards

Best paper award is one of the best ways to use GFPS \$

- increases the number of awards available in fluid power field
- gives visibility to GFPS

Procedure for GFPS best paper award

- The local organizer selects the papers candidate for the award (5-10 papers)
- These papers are sent to the Secretary of the Board
- The board nominates judges (GFPS participants) among conference delegates
- The judges review the papers, attend the presentations and decide the winner
- The best paper is then communicated to the Board who ratifies
- If possible, the winner is announced at the conference concluding session, or afterwards on the GFPS website

Type of award

- Monetary prize: 500 USD (*might change in future*)
- Certificate
- Backe Medal → Given only at the GFPS PhD Symposium

Requirements:

- The event needs to be GFPS-sponsored
- The award at the conference needs to be approved by the Board of Directors

GFPS Participant meeting

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2022 GFPS PhD Symposium

See slides at the end of the slide set

Material presented by prof Emma Frosina

International Journal of Fluid Power

The screenshot shows the homepage of the International Journal of Fluid Power. The page has a yellow header with the journal's name and navigation links. The main content area is white and contains several sections: a 'Home / About the Journal' breadcrumb, a paragraph about the journal's history and focus, a list of topics of interest, and a 'Submission' section. The right sidebar contains information about the 12th International Fluid Power Conference (IFK) and the 11th JFPS International Symposium on Fluid Power HAKODATE 2020, along with ISSN numbers and a cover image of the journal.

Home / About the Journal

The International Journal of Fluid Power was established in 2000 as the first scientific journal fully dedicated to fluid power technology in English language. The journal provides essential reading for engineers and academics interested in advances in modern fluid power (FP) technology. Fluid power refers to the discipline that involves the use of fluids to perform mechanical actuations. It is a well-established and independent discipline which has a defined research area and scholarly activities since at least seven decades. The educational and research activities related to the FP discipline serve a large and widespread industry, reaching from agriculture, construction, transportation, aerospace, marine, manufacturing and entertainment industries.

The journal promotes and emphasizes fluid power technology as an independent and distinct field of engineering. In addition to promoting high-quality articles on research and development, the journal also promotes international fluid power conferences, workshops, and exhibitions taking place around the world sponsored by the Global Fluid Power Society (GFPS). All the published papers are peer reviewed by at least two leading experts of the fluid power community to ensure both technical quality and integrity.

Topics of interest for the journal include all areas of fluid power technology, including:

- New design solutions for hydrostatic pumps and motors
- Hydrostatic and hydraulic hybrid transmissions
- New approaches for the analysis, modeling and design of hydraulic and pneumatic components
- Control design methodologies and techniques for fluid power systems
- Reduction of oscillations and vibrations of fluid power machines
- New system configurations to reduce fuel consumption and increase productivity of fluid power machines
- Safety, reliability, fault analysis, diagnosis and prognostic of fluid power systems
- Digital and switched fluid power systems
- Noise and vibration of fluid power components
- Human scale applications of fluid power technology
- Water hydraulics
- Applications of fluid power in the field of renewable energy
- Fluid power in manufacturing
- Fluid power teleoperation and haptics
- Fluid power in mobile and industrial robots
- Environmental aspects of fluid power
- Smart fluids and materials for fluid power systems

We are looking forward to receiving your submissions.

The 12th International Fluid Power Conference (IFK) will be held in Dresden on ~~March 9-11~~ 2020 October 12-14, 2020 <https://ifk2020.com/>.

The 11th JFPS International Symposium on Fluid Power HAKODATE 2020 has now been postponed to October 2021! <http://www.jfps.jp/net/11thjfps/>

ISSN:2332-1180 (Online Version)
ISSN:1439-9776 (Print Version)

International Journal of Fluid Power
Volume 20 - Number 1 - April 2019

Submission

Subscription

Subscription
Login to access subscriber-only resources.

- River Publishers since 2019
- Scopus, Emerging source citation index
- Scimago Q2 down to Q4 (clarifications asked)
- News IF: starting June 2023
- 17 papers in 2021
- >20 papers in 2022
- About 50% rejection rate

International Journal of Fluid Power

Recent Initiatives

- **Paper accessibility.** IJFP paper published before 2020 available online
- **Paper accessibility.** EUR 50 per individual online subscription to GFPS members
- **Promotion.** Fliers at conferences. Interviews to Editorial Board members
<https://www.youtube.com/watch?v= M0swcSv KE>

Best paper award (once a year)

2021: *“A Digital Displacement Hydrostatic Wind-turbine Transmission”*
by W. Rampen et al. (2.44 avg views per day)

- **Special issue.** Propose to have a special issue for every GFPS sponsored event.

How it works:

- local conference chair to be the Guest Editor
- 5-7 papers to be identified from the conference
papers selected for the GFPS best paper award is a possible option. Other criteria can be accepted.
Important to have good reviews
- authors to be invited to submit an extended version (20%-30% difference). This solves copyright issues. Paper title can remain unchanged.

GFPS2022
ICFPMCE2022
IFK 2022
SICFP2021
ICFP2021
NSHP 2020
GFPS 2020

International Journal of Fluid Power

New Initiatives

- **Open access journal.** Starting 2023 the IJFP will be online
 - EUR 600 publication fee
 - EUR 300 for GFPS participating institutions
 - EUR 150 for papers in the IJFP special issues

covered by IJFP dues
- **Strategies to further lower open access fees.**
 - Industry sponsorship for IJFP issues
- **Enforce citing IJFP on paper submission.**
 - to authors: 2/3 citations to IJFP papers “to ensure topic relevance”
authors can justify why no IJFP references are provided
 - to Associate Editors: check flag added to the review online tool

GFPS Participant meeting

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GFPS financial status

Current available **\$ 23,074**

Sept 2021 – Oct 2022 expenses:

\$ 500 (+ bank fee) x 4 paper awards

\$ 150 2020 tax declarations

\$ 1,500 webmaster

\$ 1,500 int. journal of fluid power assistant

\$ 300 web domain

Other business

- From past IFK2022 meeting: [Weber] proposal to collect publication database from every GFPS institution and share to all GFPS participants. Sharing mode to be defined (possibly gfpsweb.org)



UNIVERSITÀ DEGLI STUDI
DI NAPOLI FEDERICO II



UNIVERSITÀ DEGLI STUDI
DEL SANNIO Benevento

2022 IEEE Global Fluid Power Society PhD Symposium

Napoli - Italy | October 12 - 14, 2022

Congress Centre of the University Federico II

Sponsored by:



Adolfo Senatore

*University of Naples Federico II
Naples, Italy*



Emma Frosina

*University of Sannio
Benevento, Italy*



GFPS 2022: Not only numbers

- **16** technical sessions
- **64** works presented
- **61** papers published
Soon on IEEE and shared with all the participants
- **4** Best Paper Awards





GFPS 2022: Not only numbers

- #3 Plenary Lectures



- #2 Industry Panel Sessions

- Panel 1: Technology trends and R&D methods

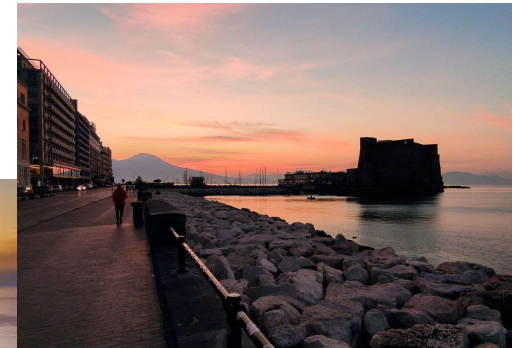
- Panel 2: Applied innovations





GFPS 2022: Not only numbers

- More than **160** participants
- 1 stunning venue



- ...countless of fun!

