



Global Fluid Power Society

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# ***Global Fluid Power Society (GFPS)***

## *Participant online meeting*

September 18th, 2020

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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***

*Friday, September 18th 2020*

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In attendance:

- 1. Andrea Vacca**
- 2. Andrew Plummer**
- 3. Damiano Padovani**
- 4. Emma Frosina**
- 5. Eneko Goenechea**
- 6. Heikki Handroos**
- 7. Jinghui Peng**
- 8. Kalevi Huhtala**
- 9. Kazushi Sanada**
- 10. Lasse Schmidt**
- 11. Massimiliano Ruggeri**
- 12. Massimo Rundo**
- 13. Mateus Bertolin**
- 14. Michal Banas**
- 15. Michele Pavanetto**
- 16. Noah Manring**
- 17. Olivier Reinertz**
- 18. Paolo Casoli**
- 19. Per Johansen**
- 20. Petter Krus**
- 21. Rudolf**
- 22. Songjing**
- 23. Travis Wiens**
- 24. call-in-User5**
- 25. Victor De Negri**
- 26. Victor Sverbilov**
- 27. Xavier Gomez**
- 28. Yinshui Liu**

# Agenda

1. GFPS in short:  
website, participants, structure
2. GFPS in conferences
3. GFPS awards
4. International Journal of Fluid Power
5. GFPS PhD symposium
6. GFPS financial status
7. 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.

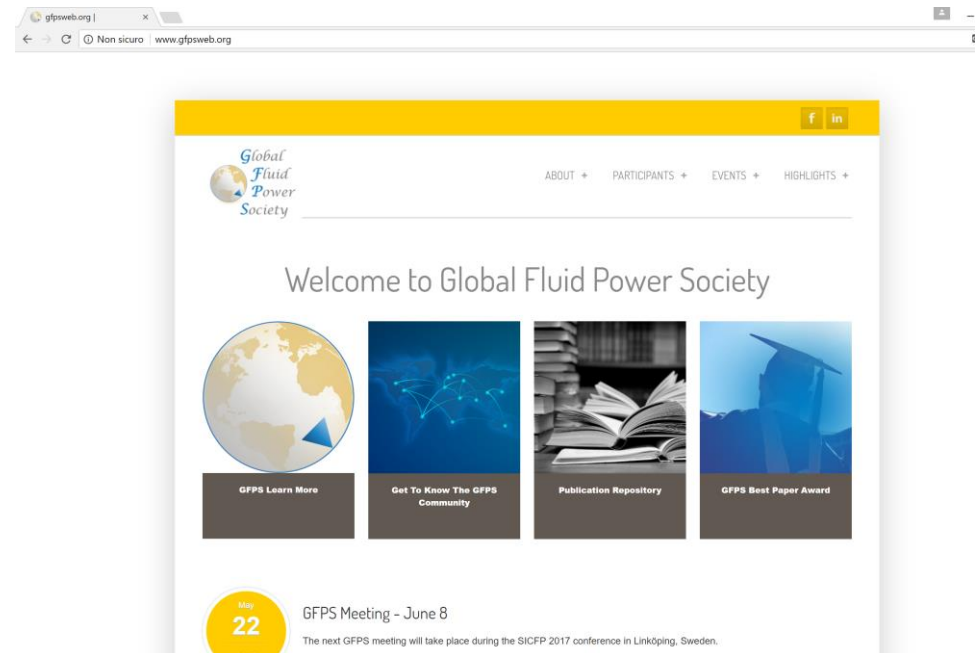
The Global Fluid Power Society operates as a Non-Profit Corporation, registered in the United States (State of Indiana).

# GFPS in short

The website is the main communication channel of GFPS ([www.gfpsweb.org](http://www.gfpsweb.org)).

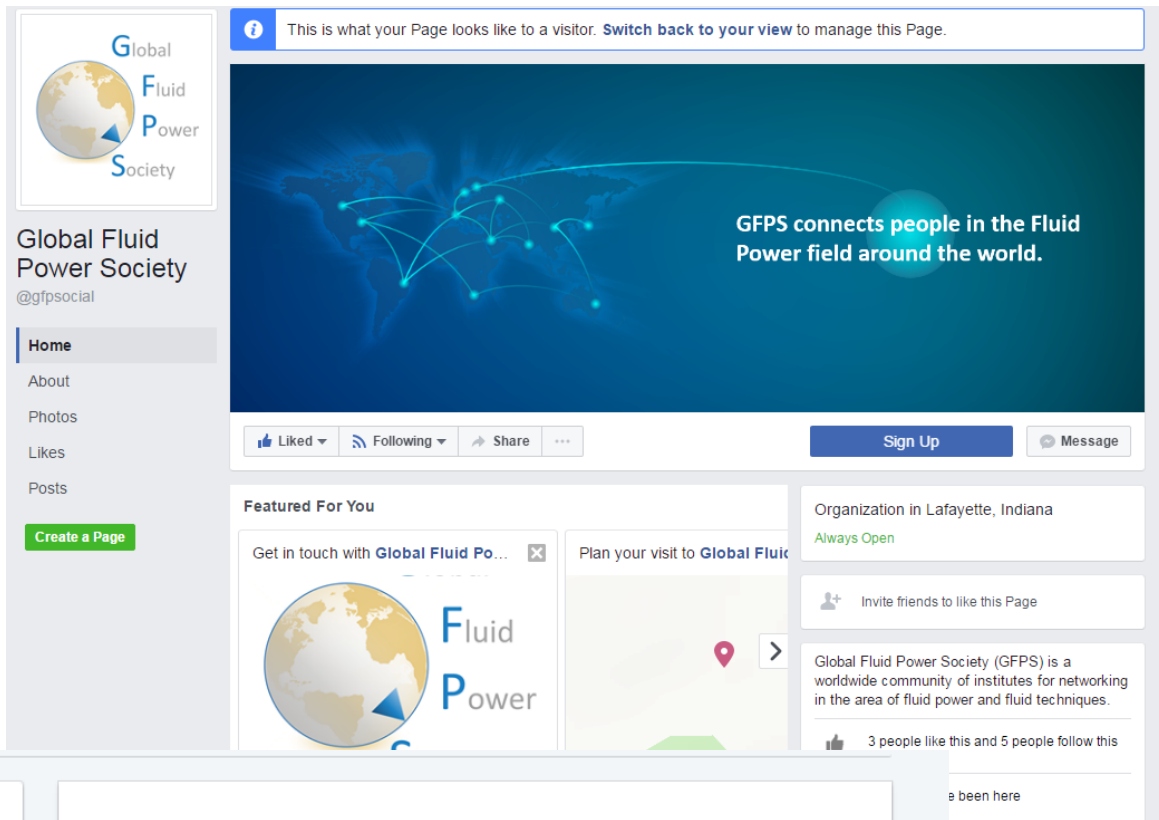
It includes:

- a repository of fluid power papers, including past Bath/PTMC conferences, IFK conferences..and other to come
- research highlights
- calendar of fluid power events
- job posting
- 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  
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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**

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 in short

## GFPS structure

### **board of directors** (Mar 2018 – Feb 2022)

Andrew Plummer (chair)

Andrea Vacca (Secretary and Treasurer)

Rudolf Scheidl

Jürgen Weber

Huayong Yang

### **Advisory board**

each participating institution (not small participants) nominate a member of the Advisory Board

### **Participants**

small institutions

regular institutions

fluid power associations and companies

# Board of Directors

(March 2018 – February 2022)

From February 2018 vote

(vote from 17 institutions)



Andrew Plummer (**Chair**)

*University of Bath, UK*



Andrea Vacca (**Secretary and Treasurer**)

*Purdue University, USA*



Jürgen Weber

*Technische Universität Dresden, Germany*



Rudolf Scheidl

*J. Kepler University of Linz, Austria*





Huayong Yang

*Zhejiang University, China*



# Current Participants

## Academic Institutions

	Academic participant
	Company - Association

## Organizations

ASME – FPST  
 VDMA - FFF

*Bosch Rexroth corp. to join (2020)*

#	Institution	Country	contact person
1	Maha Fluid Power	USA	Andrea Vacca
2	IFAS - Aachen	Germany	Hubertus Murrenhoff
3	Laboratoire Ampere - INSA Lyon	France	Eric Bideaux
4	University of Minnesota CCEFP	USA	Kim Stelson
5	University of Parma	Italy	Paolo Casoli
6	University of Missouri	USA	Manring, Noah D.
7	Harbin Inst of Technology	China	Songjing Li
8	University of Bath	UK	Andrew Plummer
9	Univ of Saskatchewan	Canada	Trevis Wiens
10	Technical Univ of Technology IFD Dresden	Germany	Jurgen Weber
11	University of Naples	Italy	Adolfo Senatore
12	Yokohama National University	Japan	Kazushi Sanada
13	Beijing Institute of Technology	China	Junjie Zhou
14	Zhejiang University	China	Huayong YANG
15	IMAMOTER	Italy	Max Ruggeri
16	National Aerospace Defence Academy	Japan	Takao Nishiumi
17	Samara State Aerospace Univ	Russian Federation	Victor Sverbilov
18	Technical Univ of Turin	Italy	Massimo Rundo
19	Tampere Univ of Technology	Finland	Kalevi Huhtala
20	Wroclaw Univ of Technology	Poland	Jaroslav Stryczek
21	Lappenraanta Univ of Technology	Finland	Heikki Handroos
22	J. Kepler Univ Linz	Austria	Rudolf Scheidl
23	American univ of Lebanon	Lebanon	Naseem Daher
24	Karlsruher Inst of Technology KIT	Germany	Marcus Geimer
25	Univ of Santa Catarina - Florianopolis	Brazil	Victor De Negri
26	Cracow University of Technology	Poland	Andrzej Sobczyk
27	South China Univ of Technology	China	Yajun Liu
28	Tech Univ Braunschweig	Germany	Ludger Frerichs
29	Linkoping Univ of Tech	Sweden	Petter Krus
30	Universitat Politècnica de Catalunya	Spain	Esteban Codina
31	Danfoss Power Solutions	Germany	Robert Rahmfeld
32	Huazhong University of Science and technology	China	Yinshui Liu
33	Aalborg University	Denmark	Per Johansen
34	INSA Toulouse	France	Jean Charles Mare
35	Institute of Technische Universität Darmstadt	Germany	Christian Schänzle
36	Continental	USA	Robeto Maddalon
37	Diplomatic	Italy	Michele Pavanetto
38	National Fluid Power Association	USA	Erik Lanke
39	ASME	USA	James Van De Ven
40	VDMA FFF	Germany	Peter-Michael Synek
41	Linde Hydraulics	Germany	Johannes Schmitz
42	Bucher Hydraulics	Switzerland	Eneko Goenechea

## **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)*

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IFK 2020 (thanks to Jürgen Weber)

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

**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
- The website will have a dedicated page for all the GFPS award

## **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

Friday, September 18th 2020



# 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 title and navigation links. The main content area is white and contains several sections: a breadcrumb trail, a paragraph about the journal's history and focus, a paragraph about its scope and peer review process, a list of topics of interest, and a submission notice. On the right side, there is a sidebar with information about the 12th International Fluid Power Conference (IFK) and the 11th JFPS International Symposium on Fluid Power HAKODATE 2020. Below this, there are ISSN numbers for the online and print versions, a cover image of the journal, and links for submission, subscription, and login.

International Journal of Fluid Power

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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 journals 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 in 2018
- No IF 😞

# International Journal of Fluid Power

## Recent actions

### Associate Editors

Dr. Eric J. Barth, Vanderbilt University TN, USA

Dr. [Eric Bideaux](#), Institut National des Sciences Appliquees de Lyon, France

Dr. Emma Frosina, Ph. D, University of Naples 'Federico II', Italy

Dr. Roger Fales, University of Missouri MU, USA

Dr. Takayoshi Ichiyonagi, National Defense Academy, Japan

Dr. Victor Juliano De Negri, Federal University of Santa Catarina, Brazil

Dr. [Bernhard Manhartsgruber](#), Johannes Kepler University, Austria

Dr. [Andrew Plummer](#), University of Bath, UK

Dr. Massimo Rundo, Politecnico Di Torino, Italy

Dr. Olivier Reinertz, RWTH Aachen University, Germany

Dr. Feng Wang, Zhejiang University, China

Dr. Juergen Weber, Technical University Dresden, Germany

### International Editorial Board

Dr. Torben Ole Andersen, Aalborg University, the Netherlands

[Dr Wayne Book](#), Georgia Institute of Technology, USA

Dr. Richard Burton, University of Saskatchewan, Canada

Dr. Ying Chen, Zhejiang University, China

Dr. Esteve Codina, Technical University of Catalonia, Spain

Dr. Heikki Handroos, Lappeenranta University of Technology, Finland

Dr. Ato Kitagawa, Tokyo Institute of Technology, Japan

Dr. Gary W. Krutz, Purdue University, USA

Dr. Songjing Li, Harbin Institute of Technology, China

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Dr. Jean-Charles Maré, INSA Toulouse, France

Dr. Takao Nishiumi, National Defense Academy, Japan

Dr. Petr Noskievic, VSB - Technical University of Ostrava, Czech Republic

Dr. Jan-Ove Palmberg, Linköping University, Sweden

Dr. Terenziano Raparelli, Politecnico of Torino, Italy

Dr. Robert Rahmfeld, Danfoss Power Solutions, Denmark

Dr. Kazushi Sanada, Yokohama National University, Japan

Dr. Rudolf Scheidl, Johannes Kepler University of Linz, Austria

Dr. Nariman Sepehri, University of Manitoba, Canada

Dr. Adolfo Senatore, University of Naples "Federico II", Italy

Dr. Jonny Carlos da Silva, Federal University of Santa Catarina, Brazil

Dr. Andrzej Sobczyk, Cracow University of Technology, Poland

Dr. Jacek S. Stecki, Monash University, Australia

Dr. Nicolae Vasiliu, University Politehnica Bucharest, Romania

Dr. Matti Vilenius, Tampere University of Technology, Finland

Dr. John Watton, Cardiff University, UK



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Dr. Feng Wang, Zhejiang University, China

Dr. Juergen Weber, Technical University Dresden, Germany

### Recent additions (2020)

### International Editorial Board

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Dr. Matti Vilenius, Tampere University of Technology, Finland

Dr. John Watton, Cardiff University, UK

# International Journal of Fluid Power

## New Initiatives

- **Paper accessibility.** IJFP paper published before 2016 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>
- **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.
  - potential conflict with ASME conference (might not be possible with FPMC)

IFK 2020

NSHP 2020

GFPS 2020



# International Journal of Fluid Power

## New Initiatives

- **Encourage GFPS participants to submit papers.** To increase number of submissions. Propose to have a participation discount to institution with a paper published to the IJFP during the previous year.
- **Fluid Power Thesis abstract.** To be published to IJFP (Mateus Bertolin to contact GFPS institutions)

# Second GFPS PhD Symposium → IEEE

Thanks to the hard work of Prof. Songjing Li!



[Home page](#) [About us](#) [Topics](#) [Committee](#) [Sponsors](#) [Submission and Registration System](#) [Important dates](#) [Program](#) [Conference venue and hotels](#) [Transportation](#)

## 2020 IEEE Global Fluid Power Society PhD Symposium

October 19-21, 2020, Guilin, China

### Important dates

MORE

2020/02/03 2020 02 05, Extended Deadline for full pap...  
2019/10/22 Extended Deadline: November 20, 2019  
2019/09/05 Deadline of Abstract Submission: Novem...

### News

MORE

2020/09/14 Virtual conference  
2020/03/17 Postponement of GFPS2020  
2020/02/24 Important note!  
2019/08/26 Congratulations! The symposium is include...  
2019/08/26 Welcome to IEEE/GFPS2020 PhD Sympe...

### Best paper award

MORE

2019/11/07 FPTC Best paper award \$200  
2019/11/07 GFPS Best paper award \$500

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History conference  
Symposium Feedback

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**HOTLINE**

+86-451-86413253 Email:  
gfps2020@163.com



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<http://www.gfps2020.org/>

# Second GFPS PhD Symposium → IEEE

- 2020.10.19-21, online, 19:00-24:00 Beijing Time, everyday
- 3 sessions every day, 5 presentations each session followed by discussions at the end of each session
- It will be an online meeting through WeBEx and a live broadcasting to everyone, audience can visit without download and login
- **110 abstract submitted, 65 papers finally accepted**
- 35 oral presentations (15min each) and 30 posters on the website, 5 keynote and invited speeches (35min each), Andrew, Huayong, Rudolf, Andrea and Anderson(invited)

# Second GFPS PhD Symposium → IEEE

- Registration fee is waived for GFPS members
- Submission to IEEE before symposium so that the proceedings will appear at IEEE xplore quickly after the symposium
- Best paper award panel, volunteers are needed, 10 shortlist from 35, and 1+2 from 10

## **News / to be discussed:**

- Encourage students from GFPS institutions to attend. **A unique opportunity to reach a wide audience of fluid power graduate students (related to an action point for directors discussed in 2019)**
- Special issue on the International Journal of Fluid Power

# Third GFPS PhD Symposium

*deadline for applications: 11<sup>th</sup> October*

- ✓ *nomination collected by the secretary through the form available online*
- ✓ *Board of Director decision*
- ✓ *winner announced at the 2020 GFPS PhD Symposium (or soon after)*



## **APPLICATION TO HOLD The GFPS 2022 PhD Symposium**

Dear Applicant,

The Global Fluid Power Society (GFPS) biennial PhD Symposium offers an excellent platform for young researchers and PhD students from all over the world to present and exchange their research ideas, to receive feedback from senior members of the fluid power community, in academia and industry on current research and future development in the fluid power research areas.

The symposium was established by the Fluid Power Net International in 2000, and it is organized by GFPS since 2018. The 2022 event of the symposium will be the 12<sup>th</sup> edition.

# **GFPS financial status**

Current available **\$ 15,700**

**Jan 2019 – Sept 2020 expenses:**

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

\$ 350 2018, 2019 tax declarations

\$ 1,500 webmaster

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

\$ 300 web domain

# **GFPS participation renewal**

**Invoice for 2020-21 to be sent soon**

**Help promote GFPS to grow. Involve other relevant fluid power institutions or fluid power companies to support GFPS initiatives**