

# Dutch Society for Precision Engineering

Version 2020-1

**DSPE**

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# Profile of DSPE

The background of the slide is a dark, deep blue. It is filled with numerous thin, curved lines of light that appear to be trailing off into the distance, creating a sense of motion and depth. These lines are primarily in shades of light blue and white. Scattered throughout the background are many out-of-focus circular light spots, known as bokeh, in various sizes and colors including blue, purple, and white. The overall effect is a futuristic and dynamic aesthetic.

# What makes DSPE unique?

- Independent professional branch organisation since 1954 for all precision engineers in the Netherlands and surrounding countries.
- Unique community of precision engineers stimulating professional contact and sharing knowledge and experience.
- More than 100 members active in precision engineering: business, research, and education.
- Knowledge sharing and community building via events & meetings, professional journal Mikroniek, online presence & tools, special interest groups etc.



# DSPE: more than 100 members active in precision engineering\*

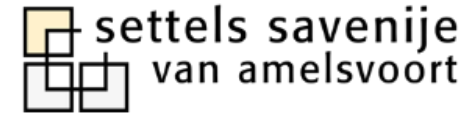
ASML



FESTO



UNIVERSITY  
OF TWENTE.



TNO

ThermoFisher  
SCIENTIFIC



ECOCLEAN



SRON

avans  
hogeschool



DSPE

# DSPE part of Dutch high-tech sector

- Dutch high-tech sector is well developed and supporting sectors around the globe with its expertise and solutions.
- Within the Dutch high-tech sector precision engineering & precision technologies play significant roles. Resulting in (systems and components for) machines & instruments like wafer steppers, MRI scanners, electron microscopes, scientific instruments etc.
- In this high-tech setting the DSPE community is highly valuable due to networking, knowledge sharing, and collaboration among precision engineers & precision technologists.



# Characteristics DSPE members and their professionals

- The professionals have a passion for precision engineering.
- They operate from the content of precision engineering.
- High freedom of creative thinking (as evolved within the Dutch precision engineering community over the last half century).
- Extensive collaboration and multidisciplinary peer cooperation (inside and outside the professional's organisation) (as evolved within the Dutch precision engineering community over time).
- Diversify of professional levels: PhD, Master, Bachelor, Associate Degree, and Vocational.
- International oriented.

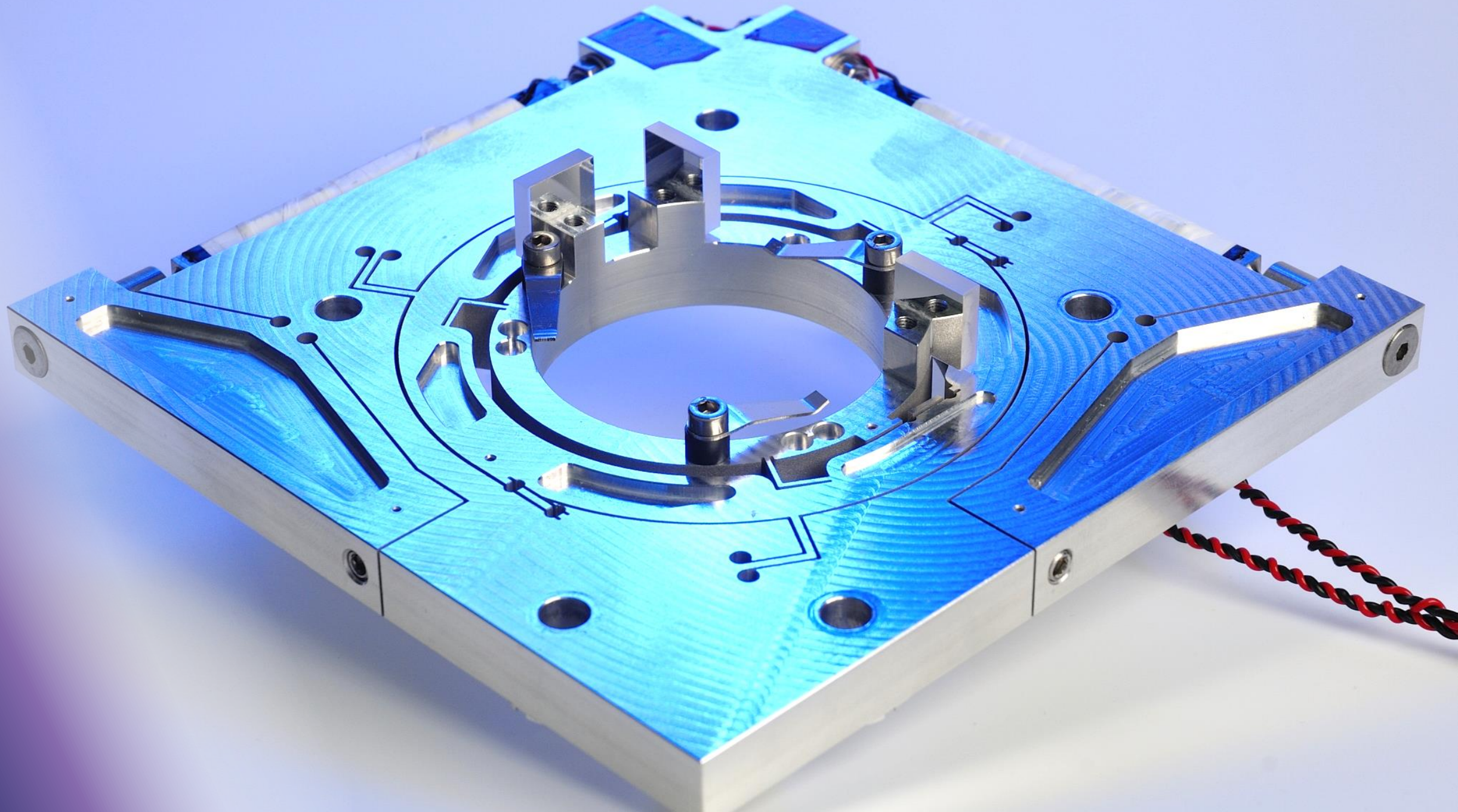
# Fields of interests of DSPE\*

- Contamination control
- Controls engineering
- Engineering dynamics
- Engineering of systems in vacuum
- Manufacturability
- Manufacturing technology, including e.g. additive manufacturing
- Materials engineering
- Mechatronics
- Medical precision devices
- Microsystem technology
- Optics & opto-mechatronics
- Particle contamination control
- Photonics
- Physics
- Precision mechanics
- Robotics
- Systems engineering
- Thermodynamics
- Tribology



# Mission of DSPE

- Promote en stimulate technology improvement and innovation in the field of precision engineering through:
  - Knowledge transfer
  - Professional network / community
  - Peer recognition
- Enhance the position of Dutch precision engineering & precision technology in the international environment





# Organisation

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# Board of DSPE\*

President: Hans Krikhaar

Vice-president: Pieter Kappelhof

Gabby Aitink-Kroes

Toon Hermans

Rick Baade

Wouter Jonker

Jordan Bos

Cor Ottens

Kasper van den Broek

Ton Peijnenburg

Godelieve Bun

Adrian Rankers

Maarten Dekker

Ronald Schneider

Matthijs van Gastel

Robert Swinckels

Peter Giesen

Marty van de Ven

Jos Gunsing

Jasper Winters

*\* Alphabetic order, besides president en vice-president*



# Advisory Board of DSPE\*

Jos Benschop (ASML)

Jan van den Brink  
(Frencken Europe)

Hans Duisters (Sioux)

Jan van Eijk (Mice)

Marc Hendrikse (NTS Group)

Just Herder (TU Delft)

Frank de Jong  
(Thermo Fisher Scientific)

Guustaaf Savenije (VDL ETG)

Dennis Schipper (DEMCON)

Egbert-Jan Sol (TNO)

Henny Spaan (IBS)

Maarten Steinbuch (TU/e)

\* *Alphabetic order*

# Networks within the DSPE

The background of the slide is a dark blue to black gradient. It is filled with numerous thin, curved lines of light in shades of blue and purple, creating a sense of motion and connectivity. Interspersed among these lines are several out-of-focus circular light spots, or bokeh, in similar colors, adding depth and a futuristic aesthetic to the overall design.

# Networks within the DSPE

- DSPE Special Interest Groups, like:
  - Optics & Opto-mechatronics
  - Thermo-mechanics
- DSPE Young Precision Network (YPN)
  - Network of young professionals and students active in precision engineering.
  - Sharing experiences in being a (future) young professional in precision engineering.
  - Supporting community development among (future) young professionals.





# **International and national associates**



# International associates of the DSPE\*

## In Europe:

- euspen (Europe)
- Mechatronic Cluster Sonderborg (Denmark)
- Micronora Besancon (France)
- NMWP (Germany)
- Optence (Germany)
- Spectaris (Germany)
- VDE-VDI (Germany)

## Outside Europe:

- ASPE (USA)
- Ho Chi Min High Tech Park (Vietnam)
- Indian Cluster of Mechatronics (India)
- National Taiwanese University / ITRI (Taiwan)

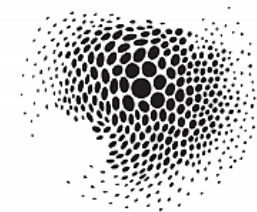
\* Alphanumeric order

# Dutch associates of the DSPE

## Associations, societies and organisations like:



Brainport  
Industries  
Campus



Bond voor Materialenkennis

## Knowledge and education institutions like:



Universiteit  
Leiden



Universiteit Utrecht



UNIVERSITY  
OF TWENTE.



# Awards granted by DSPE

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# Awards granted by DSPE



**Wim van der Hoek Award** (yearly):  
Best bachelor / master thesis on  
mechanical/mechatronics engineering



**Rien Koster Award** (even years):  
Best precision engineering oeuvre



**ir. A. Davidson Award** (odd years):  
Best young professional talent in precision engineering



**Martin van den Brink Award** (even years):  
Best precision engineering system architect



# Award winners over the last few years

## **Wim van der Hoek Award:**

Martin Kristelijn, Sam Peerlinck, Niels van Giessen, Gihin Mok, Marc Damen, Mark Janssens, Stefan Spanjer, Alexander Mulder, Tim Nai (Tin Yan Nai), Raymondo Cau, Volkert van der Wijk, Rob van Haendel, and Erik Manders

## **Rien Koster Award:**

Peter Rutgers, Henny Spaan, Huub Janssen, Jan Nijenhuis, Piet van Rens, Rine Dona, Theo Heeren, and Rien Koster

## **ir. A. Davidson Award:**

Lennino Cacace, Rens Henselmans, Edwin Bos, Krijn Bustraan, Martijn Leenders, and Henk-Jan van der Pol

## **Martin van den Brink Award:**

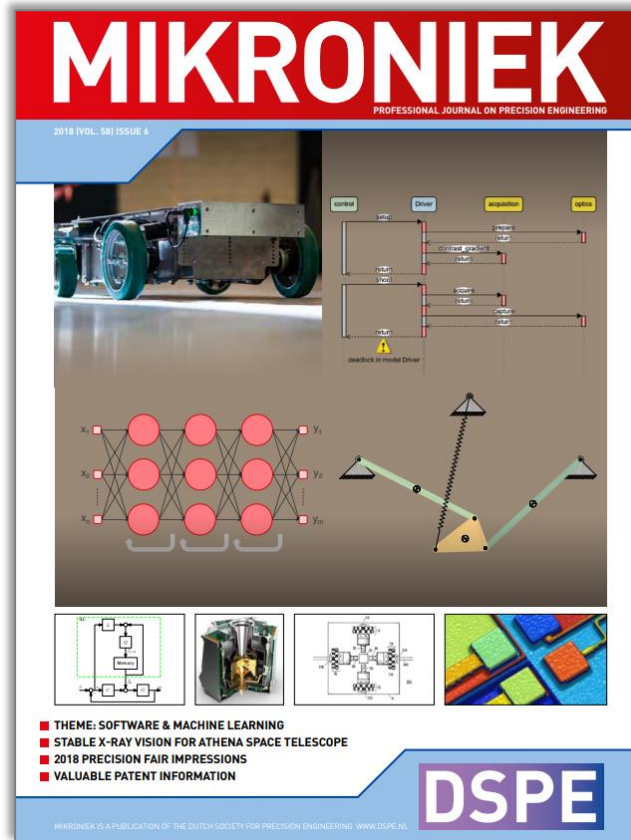
Marco Wieland, Jan van Eijk, and Erik Loopstra



# **DSPE's professional journal 'Mikroniek'**

# Professional journal 'Mikroniek'

- Mikroniek is a well received precision engineering journal with high quality articles about technological, innovation and scientific aspects in the field of precision engineering. Thousands of articles have been published so far.
- Mikroniek is widely spread in the Netherlands and outside the Netherlands: business, research, science, and education community.
- Mikroniek is published in English and has 6 issues per year.
- Editorial board with representatives from the industry and scientific community.





# Editorial board of DSPE's Mikroniek\*

Chairman: Prof.dr.ir. Just Herder  
(Delft University of Technology and  
University of Twente)

Servaas Bank, B.Sc. (VDL ETG)

Ir.ing. Bert Brals  
(Sioux Mechatronics)

Prof.dr.ir. Dannis Brouwer  
(University of Twente)

Maarten Dekker, M.Sc. (Philips)

Otte Haitsma, M.Sc. (DEMCON)

Ing. Ronald Lamers, M.Sc.  
(Thermo Fisher Scientific)

Erik Manders, M.Sc.  
(Philips Innovation Services)

Dr.ir. Pieter Nuij (NTS Group)

Dr.ir. Gerrit Oosterhuis (VDL ETG)

Maurice Teuwen, M.Sc.  
(Janssen Precision Engineering)

Editor: Dr.ir. Hans van Eerden

\* Alphabetical order, besides the chairman



# **Events and meetings organised by the DSPE**

# Events and meetings organised by the DSPE

- DSPE Conference on Precision Mechatronics
- DSPE Optics & Opto-Mechanics Week
- DSPE Knowledge Days
- DSPE Precision in Business Days
- DSPE Young Precision Network (YPN) meetings

When possible, most of these DSPE events and meetings are organised in collaboration with DSPE members and other relevant organisations (companies, institutes, associations, societies).

# DSPE Conference on Precision Mechatronics

- DSPE Conference on Precision Mechatronics is a bi-annual 2-day event for knowledge sharing and networking. The conference is highly appreciated among precision engineers (industry & research) being part of the DSPE community.
- With key-notes, plenary presentations, poster presentations, and demonstrations of mechatronic systems. Including social events.
- The conference makes usage of an advisory board with members from the industry and research / academic community.





# DSPE Optics & Opto-Mechanics Week

- DSPE Optics & Opto-Mechanics Week is a bi-annual event focused on engineering related to optics and opto-mechanics. So far, editions were held in Eindhoven, Delft and Aachen.
- Key elements of this week are:
  - Symposium with exhibition
  - Multiday course on 'Optomechanical System Design'
- The Programme Committee consists of respected members from the industry and the international scientific community.
- Ideally the event is organized with the support of relevant associations, societies, and organisations. E.g. Brainport Industries, Optence, and Spectaris.

# DSPE Knowledge Days

- Thematic events on topics like:
  - Particle contamination control
  - Design in vacuum
- In close collaboration with experts from DSPE members and other relevant organisations (companies, institutes, associations, societies)
- Small group of attendees leads to a good atmosphere for sharing valuable insight knowledge and supports community development on specific themes

# DSPE Precision in Business (PiB) Days

- Meeting (mostly an afternoon session) at the location of a DSPE member. This gives the opportunity to learn more about the DSPE member's profile and portfolio (knowledge, expertise, technologies, products/solutions, network etc.).
- Small group of attendees which leads to a good atmosphere for: 1) learning more about the DSPE member, 2) sharing knowledge, and 3) supports community development.
- Over the last few years DSPE PiB Days were held at e.g. ASML, Bosch Rexroth, DEMCON, IBS Precision Engineering, Mecal, NTS Group, Philips Research, Punch Powertrain, Tegema, Ter Hoek, Thermo Fisher Scientific, TNO, and VSL.\*

\* *Alphabetic order*

# DSPE Young Precision Network (YPN) meetings

- Meeting (mostly an afternoon session) at the location of a DSPE member. This gives the opportunity to learn more about the DSPE member's profile and portfolio (knowledge, expertise, technologies, products/solutions, network etc.).
- Small group of young professionals and students which leads to a good atmosphere for: 1) learning more about the DSPE member, 2) sharing experiences in being a (future) young professional in precision engineering, and 3) supports community development among (future) young professionals.
- Over the last few years DSPE YPN meetings were held at e.g. ASML, Bosch Rexroth, Heidenhain, maxon, NTS Group, Thermo Fisher Scientific, and VDL ETG.



# DSPE supports various events and meetings

Depending on the topics and opportunities the DSPE supports events and meetings of various organisations and associations. Examples are:

- Precision Fair (Mikrocentrum)
- High-Tech Systems Event (Techwatch)
- Gas Bearing Workshop
- Dutch Technology Week

# Certification program ECP<sup>2</sup>

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# Certification program ECP<sup>2</sup> (1)

- DSPE is founding farther of ECP<sup>2</sup>: European Certified Precision Engineering Course Program.
- Purpose of this program is to stimulate continuous professional development and training of precision engineers via accredited industry-relevant courses and granted study points.
- Course participants earn points by following the selected ECP<sup>2</sup> courses. By reaching 25 points a participant will receive a Bronze ECP<sup>2</sup> certificate. The silver ECP<sup>2</sup> certificate is for participants with in total 35 points. By reaching 45 points the participant becomes an ECP<sup>2</sup> Certified Precision Engineer.

# Certification program ECP<sup>2</sup> (2)

- More than 20 courses have been accredited so far.
- Course providers and course content partners are e.g. High Tech Institute, Mikrocentrum, Mechatronics Academy, LiS Academy, Schout DfM, Cranfield University, T2Prof, and Holland Innovative.
- On European level ECP<sup>2</sup> is coordinated by euspen.
- DSPE is active in the accreditation of industry-relevant courses and the monitoring of ECP<sup>2</sup> via the DSPE Certification Program Committee. Chairman is Jan Willem Martens.



# Online presence of DSPE

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# Online presence of DSPE

- General website of DSPE:
  - Calendar of events, overview of DSPE members etc.
- Specific content online:
  - Database of more than 1.000 articles on precision engineering (via digital issues of DSPE's professional journal Mikroniek)
  - Knowledge base on specific topics like thermo-mechanics
- DSPE events photos and videos online available
- DSPE on Linkedin and Twitter

# DSPE contact details

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# DSPE contact details

Postal address:

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5600 JW Eindhoven  
The Netherlands

Website: [www.dspe.nl](http://www.dspe.nl)

Email: [info@dspe.nl](mailto:info@dspe.nl)

Twitter: [@dspenl](https://twitter.com/dspenl)