



# The Japan Society for Precision Engineering

August 20, 2021

## Welcome to JSPE

The Japan Society for Precision Engineering (JSPE) was established in 1933. Presently, JSPE has about 4500 members, all of whom come from varied backgrounds, including universities, research laboratories, and industrial organizations.

JSPE was originally established with the purpose of providing a forum for mechanical engineers and researchers to freely discuss common issues and future developments concerning “extremely advanced technology.”

JSPE has since developed to encompass all engineering fields that require highly advanced technologies and now plays a leading role in the research and development of production systems, instrumentation, system control, and CAD/CAM, as well as precision mechanical elements.

JSPE also serves as a center for various research and development organizations that are directed towards the advancement of new technology. Some topics of interest are micromachining, bioengineering, and product lifecycle engineering, to name but a few.

The benefits of becoming a JSPE member include access to the wealth of information on precision engineering in JSPE’s journals, as well as the opportunity to participate in meetings, conferences, tutorial lectures, plant

## International activities of JSPE

*Precision Engineering – Journal of the International Societies for Precision Engineering and Nanotechnology* is an academic journal devoted to the multidisciplinary study and practice of high accuracy engineering, metrology, and manufacturing. It is associated with the American Society for Precision Engineering (ASPE) and the European Society for Precision Engineering and Nanotechnology (**euspen**).

*ICPE (International Conference on Precision Engineering)*, sponsored by JSPE, ASPE and **euspen**, is a conference held every two years for the promotion of research activities in precision and production engineering.

*ASPEN (Asian Society for Precision Engineering and Nanotechnology)* is an umbrella organization designed to promote collaboration among academic and industrial societies in Asia. JSPE plays an important role in ASPEN.



# Eight Core Technology and Research Areas

## Design & Production System

Design Theory  
Geometric Modeling  
CAD/CAM/CAE  
Digital Style Design  
Smart Engineering  
Life Cycle Engineering  
Service Engineering  
IoT/AI/Big Data  
Cyber-Physical Systems (CPS)  
Production Planning & Control

## Precision Machining

Cutting, Grinding & Abrasive Machining  
Planarization & CMP  
Functionalized Freeform Generation  
Additive Manufacturing  
Electrical Discharge Machining  
Electrochemical Machining  
Laser Beam Machining  
High Energy Beam Machining  
Nontraditional Machining  
Chemical Machining & Etching  
Forming and Shaping Processes  
Die & Mold Technologies

## Mechatronics & Precision Machinery

Robotics  
Intelligent Systems  
Motion Control & Positioning  
Sensors & Actuators  
High-Speed & High-Precision Machine Tool  
Miniaturized Manufacturing Systems  
System & Control Engineering  
Precision Instruments & Products  
Aeronautical & Aerospace Engineering  
Precision Agriculture, Forestry & Fisheries

## Precision Measurement

Optical Measurement  
3D Measurement  
Image-Based Measurement  
In-Process Measurement  
Surface Roughness & Profile Measurement  
Intelligent Precision Measurement  
Photonics  
Quantum Beam Science  
STM & AFM

## Human & Environmental Engineering

Principle of Manufacturing  
Human Engineering  
Technology & Technical Skills  
Environmental & Energy Technologies  
Eco-Machining  
Emotional Design Engineering  
Technology & Engineering Education

## Materials & Surface Processing

Smart Materials  
Surface Treatment  
Functional Thin Films  
Surface Functionalization  
Tribology  
Plasma Processing

## Bioengineering

Bionanotechnology  
Biomechanics  
Biomimetics  
BioMEMS/MicroTAS/Lab on a Chip  
Human Dynamics  
Medical Devices & Artificial Organs  
Medical & Welfare Engineering  
Biomedical Measurements

## Micro/Nanotechnology & Emerging Technologies

Micro/Nano Systems  
Micro/Nano Fabrication & Measurement  
Micro/Nano Intelligent Technology  
MEMS/NEMS/Commercialization Technology  
Nanoimprint Technologies  
Bottom-up Nanotechnology  
SPM-Based Technologies  
New Functional Devices  
Computational Engineering & Physics

# JSPE Membership

## Membership is open to anyone interested in precision engineering.

There are three types of membership in JSPE:

Regular membership, Corporate membership, and Student membership.

Membership is open to anyone interested in precision engineering:

all scientists, technicians, and engineers working in areas related to precision engineering, and students pursuing academic studies related to the field of precision engineering.

As a member you will receive the most up-to-date information about the precision engineering field.

- As a Regular Member, you will**
- have the opportunity to participate in JSPE's technical committees, tutorial lectures, symposia, plant tours, and exhibitions.
  - have the opportunity to participate in JSPE's technical committees, in which members from various fields collaborate on specific research and development projects.
  - have the opportunity to submit papers free of charge to JSPE's journals.
  - receive extensive information on precision engineering from Journal of the Japan Society for Precision Engineering every month.
  - receive the latest information on precision engineering at the Spring and Autumn annual conferences as well as at local conferences.
  - receive access to the JSPE members-only website, which contains valuable content such as material from past events.

- As a Student Member, you will**
- receive the same benefits as Regular Members.
  - have the opportunity to attend JSPE's tutorial lectures and symposia at no cost. (The cost of textbooks is not included.)

- As a Corporate Member, you will**
- have the opportunity to attend JSPE's tutorial lectures and symposia at no cost. (The cost of textbooks is not included.)
  - receive the various benefits listed below (dependent on the registered membership class):

Item	Class AA	Class A	Class B	Class I	Class II	Web Class
Free tickets for JSPE Semestrial Meeting	10 (yearly)	5 (yearly)	2 (yearly)	1 (yearly)	–	–
Proceedings of JSPE Semestrial Meeting	2	1	1	–	–	–
Discount for registration fee of JSPE Semestrial Meeting	○	○	○	○	○	○
Discount for participating in JSPE seminars	○	○	○	○	○	○
Participation free tickets for JSPE's seminars	5 (yearly)	3 (yearly)	2 (yearly)	1 (yearly)	–	–
Textbooks of JSPE's seminars, etc.	1	1	1	1	1	–
Free listings of banner advertisement in JSPE's Web site	Fixed Display	Slide Show	Slide Show	–	–	–
Honorary Certificate of Appreciation	○	○	○	○	○	–
Journal of the Japan Society for Precision Engineering (monthly)	5	5	3	2	1	–
Precision Engineering (quarterly)	1	1	1	1	1	–



## Admission fees and Membership fees

Membership types		Admission fees	Membership fees (per year)
Regular Member		500 JPY	12,000 JPY
Regular Member ( Young )		200 JPY	6,000 JPY
Corporate Member	Class AA	500 JPY	1,000,000 JPY
	Class A	500 JPY	500,000 JPY
	Class B	500 JPY	300,000 JPY
	Class I	500 JPY	200,000 JPY
	Class II	500 JPY	150,000 JPY
	Web Class	—	50,000 JPY
Student Member	Student	200 JPY	6,000 JPY
	Web Class	—	3,600 JPY

The fiscal year is from February 1 to January 31 of the following year. Please choose "Corporate Membership" for corporate-based groups. "Regular Member (Young)" applies to those under 27 years old as of the beginning of the fiscal year (February 1).



## How to Join

To join JSPE, please fill out an application form ([https://www.jspe.or.jp/wp\\_e/join\\_e/application-form/](https://www.jspe.or.jp/wp_e/join_e/application-form/)) and send it via the web application, email, or fax.

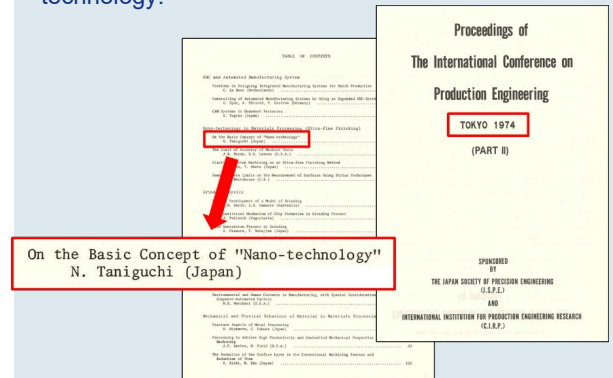
### The Japan Society for Precision Engineering

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[https://www.jspe.or.jp/wp\\_e/](https://www.jspe.or.jp/wp_e/)

## Nanotechnology from Our Member

Professor Norio Taniguchi, who was 14th president of JSPE, presented the concept of nanotechnology in the first ICPE in 1974 (N. Taniguchi, On the Basic Concept of "Nano-technology", Proc. Int. Conf. Prod. Eng. Tokyo, Part II, Japan Society of Precision Engineering, 1974, pp.18-23.). A brand new term of "Nanotechnology" at that time has become so popular and common today.

After then, JSPE has been conducting intensive research on nano-scale fabrication and measurement technology.



On the Basic Concept of "Nano-technology"  
N. Taniguchi (Japan)