


# The IEEE Nuclear & Plasma Sciences Society

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NPSS**  
NUCLEAR & PLASMA  
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**IEEE**

# About IEEE

- Institute for Electrical and Electronics Engineers
- The largest association of technical professionals with more than 400,000 members in chapters around the world.
- Its objectives are the educational and technical advancement in electrical and electronic engineering, telecommunications, computer engineering and allied disciplines.
- Non profit and non political organization
- Standards and norms
- Divided into 39 societies → one of them → **NPSS**

# The IEEE

## Nuclear and Plasma Sciences Society

*Find out more at the NPSS web site*

*<http://iee-npss.org>*

- Nuclear and Plasma Sciences society
- Around 3500 members → 50% non North America
  - R8 (Extended Europ) → 1200
  - R9 → South America → 70
  - R10 Asi/ Pacific → 530
- The eight different technical communities of the Nuclear and Plasma Sciences Society have their interests represented by individual technical committees, each of which is responsible for running one or more conferences and in many cases technically cosponsoring others.

# The IEEE Technical Society that covers....

- --- *Fusion Technology*
  - --- *Nuclear Medical and Imaging Sciences*
  - --- *Particle Accelerator Science and Technology*
  - --- *Pulsed Power Systems*
  - --- *Radiation Effects*
  - --- *Plasma Sciences and Applications*
  - --- ***Radiation Instrumentation***
  - --- ***Computer Applications in Nuclear and Plasma Science***
- *that technically co-sponsored this school*

# NPSS Organizes many Symposia and Conferences...

- ICOPS/ International Conference on PlasmaScience
- MIC Medical Imaging Conference
- NSS Nuclear Science Symposium
- NSREC Nuclear and Space Radiation Effects Conference
- PAC Particle Accelerator Conference
- PPC Pulsed Power Conference
- RTC Real-Time Conference
- SOFE Symposium on Fusion Engineering

# Technically Co-Sponsored Conferences

## ■ RADECS

- European Conference on Radiation and its Effects on Components and Systems

## ■ BEAMS

International Conference on High Powered Particle Beams

## ■ ICALEPCS

- International Conference on Accelerator and Large Experimental Physics Control Systems

## ■ ANIMMA

- Advancements in Nuclear Instrumentation, Measurement Methods and their Application

## ■ SCINT

- Inorganic Scintillators and their Applications

## ■ SORMA

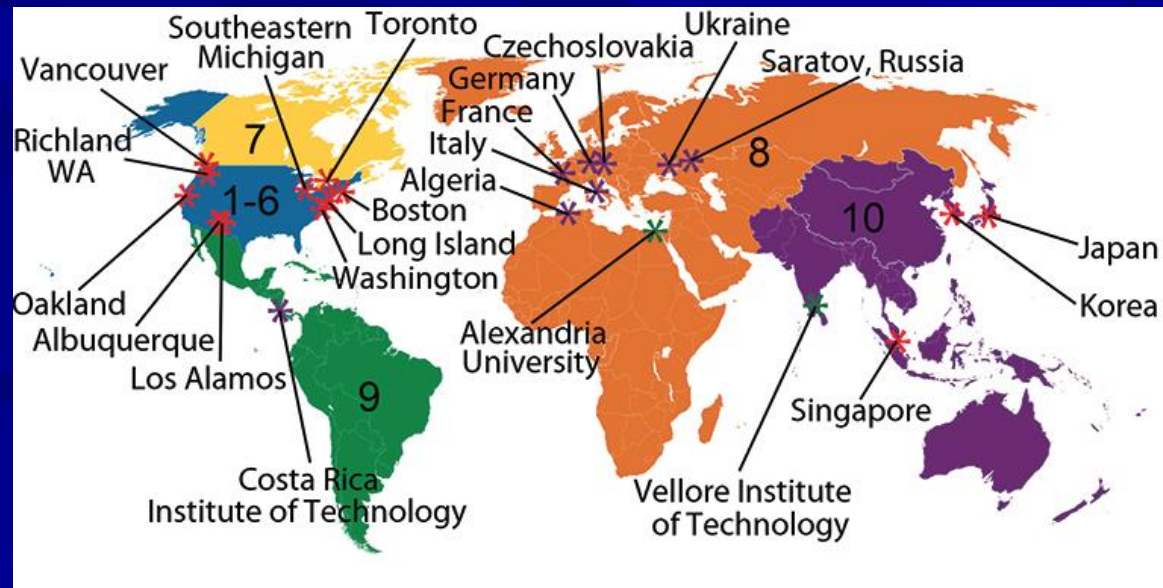
- Symposium on Radiation Measurements and Applications (SORMA-West is fully sponsored)

## ■ IPAC

- International Particle Accelerator Conference-(Co-sponsored when in North America)

# Local activities

Local **Chapters** hold meetings for the benefit of local members. These meetings provide speakers from our community and offer an opportunity for technical discourse and networking. Chapters depend on volunteers to organize meetings with the support of NPSS and IEEE. All IEEE members are automatically members of their local IEEE Section under which NPSS Chapters are organized.



# Women In Engineering (WIE)

- NPSS holds special events at conferences to recognize and support our professional female colleagues. In addition, many conferences provide financial help for childcare so the parents can get full value from the meeting.





# Distinguished Lecturer Program

■ The NPSS Distinguished Lecturers Program provides high-quality scientific and technical lectures on a broad range of topics in the nuclear and plasma sciences. It sponsors the presentation of lectures to NPSS-affiliated chapters, IEEE sections, and IEEE student branches and makes lecturers available to other IEEE entities, NPSS summer schools, colleges and universities.

# Awards

- In our technical fields, the IEEE and NPSS offer many prestigious awards and grants for all stages of your career to recognize and encourage excellence—judged by your peers.



NSS Senior award



ANIMMA 2015 Student Award

# Publications

- NPSS-sponsored publications are highly ranked access to state-of-the-art research.
- » IEEE Transactions on Nuclear Science
- » IEEE Transactions on Plasma Science
- » IEEE Transactions on Medical Imaging
- » IEEE Transactions on Radiation and Plasma Medical Sciences (2017)
- Membership includes unlimited access to NPSS Transactions—essential when employersubscription isn't accessible.

## More .....

### ■ Young Professionals (YP)

Helping young careers develop is a specific NPSS goal. Volunteers organize young professional sessions at conferences

### ■ Students branch ...

■ *Find out more at the NPSS web site*  
*<http://ieee-npss.org>*