



# THE IEEE NORTH JERSEY SECTION NEWSLETTER

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MAY 2023



## Message from the IEEE North Jersey Section Chair Prof. Hong Zhao

I am pleased to share with you the exciting news that we have several outstanding IEEE members and volunteers who have recently been recognized with prestigious IEEE Awards, Society Awards, and North Jersey Section Awards. These awards are a testament to the hard work and dedication of our IEEE members and the impact they have made on the field of engineering. The awards Reception was held on May 7<sup>th</sup>, at Birchwood Manor, Whippany, NJ. Congratulations to all the award recipients! You have worked hard to achieve this recognition and you deserve it.

## IEEE 2023 Fellows

- **Shucheng Yu**, *“for contributions to information theory and security”*
- **Ye Ouyang**, *“for leadership in network intelligence and self-organizing cellular networks”*

## IEEE Region 1 Awards

- **Chitra M. Venkatraman**, *“for significant contribution to employment networking, career development, women in engineering, and pre-university STEM education”*
- **Michael Miller**, *“For Providing a Vibrant and Robust Program of Activities for LIFE Members”*

## IEEE PES Society Awards

- **Ahmed Mousa**, *“for leadership and contributions in the development of smart energy plans and utilities of the future models”*.
- **Utsav Khandelwal**, *“For leadership and contributions in the design of power system relay protection and SCADA communication systems”*.
- **Carl Sulzberger**, *“For leadership in the preservation and publication of the history of significant engineering milestones and achievements which have benefited society”*.

## North Jersey Section Awards

- **Craig Polk**, *“for inspiring the pre-university generation through STEM outreach.”*
- **Nina Krikorian-Ezlik**, *“for her contribution to microwave components, antenna design and methods for amplitude intermodulation distortion measurement.”*
- **Shaanhin Angizi**, *“for starting energy-efficient and high-performance in-sensor designs for IoT and serving for CAS/ED chapter.”*

## International Technology and Engineering Educators Award

- **Harry Roman**, *“for technology education, engineering, and STEM activities with teachers, students, and educators.”*

## IEEE North Jersey Section Past Chair Recognition

- **Kalyan Mondal**, *“for his leadership as chairman in 2017-2018”*
- **Yu-Dong Yao**, *“for his Leadership as chairman in 2019-2020”*
- **Ajay Poddar**, *“for his Leadership as chairman in 2021-2022”*

Best wishes,

**Hong Zhao**, IEEE North Jersey Section Chair

You do not have to be an IEEE member, but prior registration is encouraged to attend any event. [IEEE North Jersey Section Website](#) [The Section Executive Committee Roster](#)

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## Some photos of the May 7<sup>th</sup> Award Banquet:



**IEEE 2023 Fellows, Shucheng Yu and Ye Ouyang, with IEEE Region 1 Director-Elect, (2020-21) Bala Prasanna (left) and Section Chair Hong Zhao (Right)**



**IEEE Region 1 Award Recipients: Michael Miller, Chitra M. Venkatraman with Section Chair Hong Zhao (Left) and Sothern Area Chair Santo Mazzola (Right)**



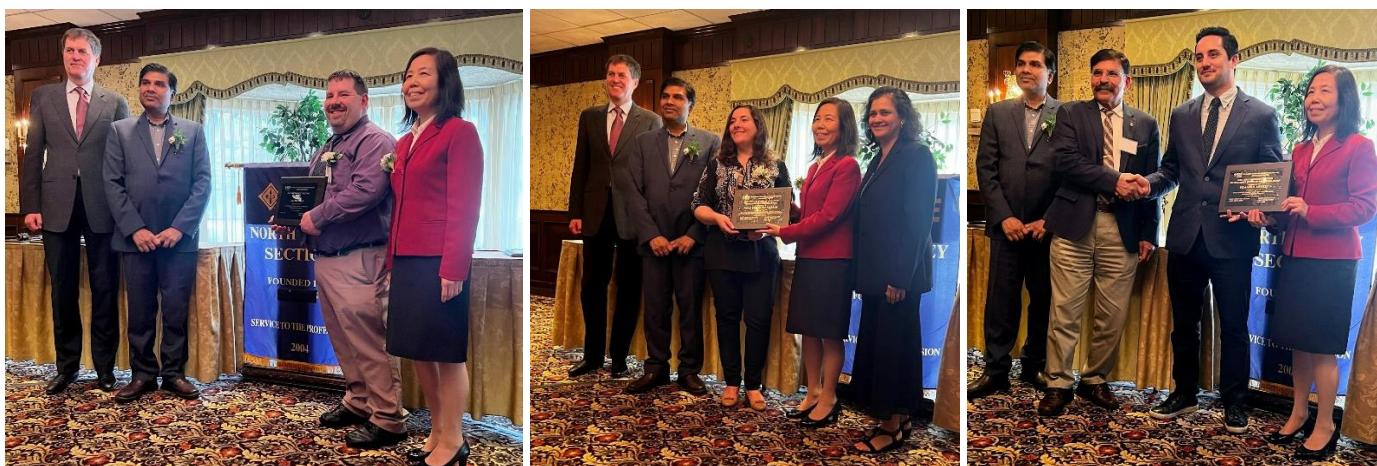
**International Technology and Engineering Educators Award Recipient: Harry Roman. From Left: Secretary, Adriaan Van Wijngaarden, Past Chair Ajay Poddar, Harry Roman, Section Chair Hong Zhao**





**IEEE PES Society Awards Recipients:** Ahmed Mousa, Carl Sulzberger (Received by wife Virginia), From left (1<sup>st</sup> photo): Past Section Chair Ajay Poddar, ED/CAS Chair Durga Misra, Ahmed Mousa, PES Chair Ronald Quade, Section Chair Hong Zhao, From Left (2<sup>nd</sup> Photo): Ronald Quade, Virginia, Hong Zhao

**North Jersey Section Awards Recipients: Craig Polk, Nina Krikorian-Ezik, Shaanhin Angizi**



**From Left:** Secretary Adriaan Van Wijngaarden, Past Chair Ajay Poddar, **Craig Polk**, Chair Hong Zhao

**From Left:** Secretary Adriaan Van Wijngaarden, Past Chair Ajay Poddar, **Nina Krikorian-Ezik**, Chair Hong Zhao, MTT/AP Vice Chair Anisha Apte

**From Left:** Secretary Adriaan Van Wijngaarden, Past Chair Ajay Poddar, **Shaanhin Angizi**, Chair Hong Zhao



**IEEE North Jersey Section Past Chairs' Recognition: Kalyan Mondal, Yu-Dong Yao, Ajay Poddar**

*Picture shows many past chairs, From Left: Ken Oexle, Russell Pepe, Durga Misra, Adriaan Van Wijngaarden, Ajay Poddar, Hong Zhao, Har Dayal, Naresh Chand, Howard Leach, Kirit Dixit*

**Other pictures during the banquet showing the attendees, invited guests and dignitaries:**



You do not have to be an IEEE member, but prior registration is encouraged to attend any event. [IEEE North Jersey Section Website](#) [The Section Executive Committee Roster](#)





**[To View More Pics of the Award Banquet held on May 7<sup>th</sup>, 2023 – Click Here](#)**

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**IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:**

- **This Month's Communications Society News from Around the World**
- **“The Fascinating Quotes of Pablo Picasso” - An article by Harry Roman**

**The Fascinating Quotes of Pablo Picasso**

Over my many years of writing, I have become a fan of the quotes of Pablo Picasso, the famous painter and sculptor, which I find incredibly insightful. My favorite quote is: "Computers are useless. They can only give you answers." In a time when computers are everywhere, Picasso pegged it right. It is the questions that drive our world, and the answering of them that opens new vistas. In another related quote Jonas Salk stated (my paraphrasing), "The 'Ah-ha' moment is not when you get the answer to a big problem, but rather when you realize what questions you need to ask!" Many educationalists claim we should be teaching our youth to ask more and better questions.

How about this Picasso beauty: "Every act of creation is first an act of destruction." How many times have you run across variations of this theme--such as "if you want to make an omelet, you have to crack an egg". Ever try making changes in an established organization. Creating something new challenges the current paradigm, it risks breaking a whole lot of eggs!

This one, strikes near and dear to my inventor-self: "The chief enemy of creativity is 'good' sense." You have to get into a little outrageous thinking to create something new, to engage imagination and resist the thoughts of others to tether your thinking tightly to the ground. Creativity is like soaring high and wide--your own great bird fearlessly riding the winds and thermal currents.

This Picasso quote needs no embellishment by me, or others, so here it is....."It is your work in life that is the ultimate seduction."

This quote strikes the educator in me....."All children are artists. The problem is how to remain an artist once he grows up." My take on this is every young student has a sense of awe about learning. Why can't they remain in a state of awe their entire lifetime of learning? Do we do something to them in their educational process that reverses this awe of the world? Many of the teachers and educators I know would think so.

Maybe engineers should incorporate more "art" and artistic thinking into their designs, inventions, and interactions with the world?

Talk to you again soon...

Harry

(Harry T. Roman: Life Senior Member ([htroman49@aol.com](mailto:htroman49@aol.com)))

(Author & Advisor, Edison Innovation Foundation), (Retired-PSE&G Co.), ([htroman49@aol.com](mailto:htroman49@aol.com))

**Calendar of Events****Upcoming Events: The month of May 2023 Onwards**

<b>Title</b>	<b>Date</b>	<b>Hosts</b>	<b>Location</b>
Face Video Compression with Generative Models: North Jersey Section Chapter, SP01	03 May 2023 12:00 PM	CH01091 - North Jersey Section Chapter, SP01, CH01177 - North Jersey Section Chapter, C16, CH01092 - North Jersey Section Chapter, AP03/MTT17	Virtual

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2023 IEEE North Jersey AI Workshop of Undergraduate and Graduate Students (IEEE NJ-AIW-UGS-2023): North Jersey Section	06 May 2023 09:00 AM	R10327 - North Jersey Section, CH01081 - North Jersey Section, EMB18, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01178 - North Jersey Section Chapter, PHO36, CH01153 - North Jersey Section Chapter, VT06	Hoboken, New Jersey
Introduction To Machine Learning: North Jersey Section Chapter, COM 19	06 May 2023 01:30 PM	CH01156 - North Jersey Section Chapter, COM 19	Teaneck, New Jersey
2023 IEEE North Jersey Section Awards Banquet: North Jersey Section	07 May 2023 03:00 PM	R10327 - North Jersey Section	Whippany, New Jersey
Ensuring NB-IoT Device NTN Performance: North Jersey Section Jt Chapter, AP03/MTT17	09 May 2023 01:00 PM	CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01178 - North Jersey Section Chapter, PHO36, CH01184 - North Jersey Section Jt Chapter, CAS04/ED15, SIGHT177 - North Jersey Section SIGHT, CH01153 - North Jersey Section Chapter, VT06	Virtual
Grid Optimization: Private LTE Provides the Optimal Foundation for Utilities: North Jersey Section Chapter, PE31	12 May 2023 09:00 AM	CH01097 - North Jersey Section Chapter, PE31, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17	South Plainfield, New Jersey
Distributed beamforming aided wireless energy transfer: North Jersey Section Jt Chapter, AP03/MTT17	12 Jun 2023 06:00 PM	CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01184-Jt Chapter, CAS04/ED15, CH01153 - North Jersey Section Chapter, VT06, CH01178 - PHO36, SIGHT177 - North Jersey Section SIGHT, CH01095 - CS23, SIGHT056 - AP-S SIGHT	Newark, New Jersey
New Jersey Offshore Wind Bootcamp Training: North Jersey Section Chapter, MAG33/UFFC20/SEN39	20 Jun 2023 09:00 AM	CH01290 - North Jersey Section Chapter, MAG33/UFFC20/SEN39	Newark, New Jersey
One-Day Summer Camp for Female High School Students: SHE in ECE: North Jersey Section Jt Chapter, CAS04/ED15	27 Jun 2023 08:00 AM	CH01184 - North Jersey Section Jt Chapter, CAS04/ED15, R10327 - North Jersey Section, SIGHT177 - North Jersey Section SIGHT, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, WE10327 - North Jersey Section Affinity Group, WIE	Newark, New Jersey

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**Past Month's Events: The month of April 2023**

<b>Title</b>	<b>Date</b>	<b>Hosts</b>	<b>Location</b>
Byte Into Hardware: Hardware Hackathon: New Jersey Institute of Technology, C16	02 Apr 2023 08:00 AM	SBC01241 - New Jersey Institute of Technology, C16	Newark, New Jersey
Electronics on anything - how thin film electronics can instrument the world: North Jersey Section	05 Apr 2023 11:30 AM	R10327 - North Jersey Section, NANO042 - IEEE Nanotechnology Council	Hoboken, New Jersey
IEEE North Jersey Section EXCOM - Meeting 6:30 PM: North Jersey Section	05 Apr 2023 06:30 PM	R10327 - North Jersey Section	Newark, New Jersey
EMC Standards - recent advancements for smart grid: NJ Coast/Princ/Central Jersey Sec Jt Ch, AP/VT/EMC	06 Apr 2023 06:30 PM	CH01066 - NJ Coast/Princ/Central Jersey Sec Jt Ch, AP/VT/EMC, R1 - Northeastern USA - Region 1, R10327 - North Jersey Section	Virtual
IEEE CAS Seasonal School: Intelligent Memory & Sensor at the Edge (IMS 2023): North Jersey Section Jt Chapter, CAS04/ED15	14 Apr 2023 09:00 AM	CH01184 - North Jersey Section Jt Chapter, CAS04/ED15, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01258 - North Jersey Section Chapter, TEM14	Newark, New Jersey
Design Elements of Complex Systems: North Jersey Section Chapter, SP01	19 Apr 2023 12:00 PM	CH01091 - North Jersey Section Chapter, SP01, CH01177 - North Jersey Section Chapter, C16	Virtual
Game Changing Technology for EW Systems: North Jersey Section Jt Chapter, AP03/MTT17	26 Apr 2023 11:00 AM	CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, R10327 - North Jersey Section, CH01215 - North Jersey Section Chapter, AES10, CH01290 - North Jersey Section Chapter, MAG33/UFFC20/SEN39, SIGHT177 - North Jersey Section SIGHT	Clifton, New Jersey

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## GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

**Wednesday, May 17, 2023, 5 p.m.**

Fairleigh Dickinson University

Gildart Haase School of Computer Sciences & Engineering (GHSCSE)

Cybersecurity Leadership: "National Center of Academic Excellence for Cyber Defense Education (CAE-CDE)" by NSA

18 cutting-edge labs, among the best in the North and Mid-Atlantic Regions

### Offers 6 Masters of Science (MS) Programs

- \*Cybersecurity & Information Assurance
- \*Management Information Systems
- \*Electrical Engineering
- \*Computer Engineering
- \*E-Commerce
- \*Computer Science (Data Science, Cloud Computing and more)

### Scan Zoom Registration



### Scan Grad Program Info



## GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

**Wednesday, June 14, 2023, 5 p.m.**

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### Scan Zoom Registration



### Scan Grad Program Info



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## 2023 IEEE North Jersey Section Volunteers

### Executive Committee

**Chair** – Hong Zhao [zhao@fdu.edu](mailto:zhao@fdu.edu)

**First Vice-Chair** – Emad Farag  
[enfarag@ieee.org](mailto:enfarag@ieee.org)

**Second Vice-Chair** – Anisha Apte  
[anisha\\_apte@ieee.org](mailto:anisha_apte@ieee.org)

**Secretary** – Adriaan J. van Wijngaarden  
[avw@ieee.org](mailto:avw@ieee.org)

**Treasurer** – Avimanyou Vatsa  
[avatsa@fdu.edu](mailto:avatsa@fdu.edu)

#### Member-at-Large

Naresh Chand - [chandnaresh@gmail.com](mailto:chandnaresh@gmail.com)

Har Dayal – [dayalhar@gmail.com](mailto:dayalhar@gmail.com)

Alfredo Tan – [tan@fdu.edu](mailto:tan@fdu.edu)

**Junior Past Chair** – Ajay K. Poddar  
[akpoddar@ieee.org](mailto:akpoddar@ieee.org)

**Senior Past Chair** – Yu-Dong Yao  
[Yu-Dong.Yao@stevens.edu](mailto:Yu-Dong.Yao@stevens.edu)

### Society Chapters

#### Aerospace Electronic Systems

**Chair** – Cherif Chibane  
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**Vice-Chair** – Kirit Dixit - [kdixit@ieee.org](mailto:kdixit@ieee.org)

#### Antennas and Propagation / Microwave Theory and Techniques

##### Co-Chairs

Ajay Poddar [akpoddar@synergymwave.com](mailto:akpoddar@synergymwave.com)

Edip Niver [niver@adm.njit.edu](mailto:niver@adm.njit.edu)

**Vice-Chair** – Anisha Apte  
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#### Circuits and Systems/Electron Devices

**Chair** – Durga Misra [dmisra@njit.edu](mailto:dmisra@njit.edu)

**Vice Chair** – Shaahin Angizi  
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#### Communications

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#### Computer

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**Vice Chair** -Tao Han - [tao.han@njit.edu](mailto:tao.han@njit.edu)

#### Computational Intelligence Society

**Chair:** Prasenjit Bhadra - [prasenjit@ieee.org](mailto:prasenjit@ieee.org)

**Vice-Chair:** Ratna Raj - [ratna.raj@njit.edu](mailto:ratna.raj@njit.edu)

#### Control Systems

**Chair** – Marcos Neto  
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#### Electromagnetic Compatibility/Product Safety Engineering

**Chair** – Russell C. Pepe - [rcpepe@ieee.org](mailto:rcpepe@ieee.org)

#### Engineering in Medicine and Biology

**Chair** – Yu-Dong Yao -

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#### Industrial Applications

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#### Information Theory

**Chair** – Adriaan J. van Wijngaarden  
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##### Co-Chairs

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#### Consultants Network

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#### Young Professionals

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**Vice Chair** -Patrick Beesley

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#### Women in Engineering

##### Co-Chairs

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Ratna Raj ([ratna.raj@njit.edu](mailto:ratna.raj@njit.edu))

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Michael Miller -  
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#### Nanotechnology Council

**Chair** - Eui-Hyeok Yang - [ehyang@ieee.org](mailto:ehyang@ieee.org)

#### North Jersey SIGHT Group

##### Co-Chairs

**Anisha Apte** - [anisha\\_apte@ieee.org](mailto:anisha_apte@ieee.org)

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### Committees

#### Audit Committee

##### Co-Chairs

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Kalyan Mondal - [mondal@fdu.edu](mailto:mondal@fdu.edu)

Mani Iyer - [mani.iyer@ieee.org](mailto:mani.iyer@ieee.org)

#### Awards & Recognitions

##### Co-Chairs

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#### Educational Activities

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Amit Patel – [a.j.patel@ieee.org](mailto:a.j.patel@ieee.org)

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Russell C. Pepe [rcpepe@ieee.org](mailto:rcpepe@ieee.org)

#### Group coordinator / History

**Chair** – Howard Leach - [h.leach@ieee.org](mailto:h.leach@ieee.org)

#### Legal Activities

**Chair** – Vacant

#### Membership Development

**Chair** – Michael Newell -

[msnewell@ieee.org](mailto:msnewell@ieee.org)

#### MTT/AP Trade Show and Symposium

**Chair** – Kirit Dixit - [kdixit@ieee.org](mailto:kdixit@ieee.org)

**Vice-Chair** – Har Dayal -

[dayalhar@gmail.com](mailto:dayalhar@gmail.com)

**TPC Co-Chair** – George Kennall

[gkk@lgsinnovations.com](mailto:gkk@lgsinnovations.com)

**TPC Co-Chair** – Ajay Poddar

[akpoddar@ieee.org](mailto:akpoddar@ieee.org)

#### Newsletter

**Chair** – Anisha Apte [anisha\\_apte@ieee.org](mailto:anisha_apte@ieee.org)

#### Nominations and Appointments

Ajay Poddar - [akpoddar@ieee.org](mailto:akpoddar@ieee.org)

Kalyan Mondal - [mondal@fdu.edu](mailto:mondal@fdu.edu)

Durga Misra - [dmisra@njit.edu](mailto:dmisra@njit.edu)

#### PACE

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**Co-Chair** – Paul E. Ward -

[peward@ieee.org](mailto:peward@ieee.org)

#### Pre-University Activities

**Co-Chair** – Chitra Venkatraman

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#### Program Review Committee

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Ajay Poddar - [akpoddar@ieee.org](mailto:akpoddar@ieee.org)

Emad Farag - [enfarag@ieee.org](mailto:enfarag@ieee.org)

#### Student Activities

**Chair** - Melvin Lewis ([mlewis@fdu.edu](mailto:mlewis@fdu.edu))

#### Student Representative Committee

**Chair** - Kalyan Mondal [mondal@fdu.edu](mailto:mondal@fdu.edu)

#### Webmaster

##### Co-Chairs

Adriaan J. van Wijngaarden - [avw@ieee.org](mailto:avw@ieee.org)

Avimanyou Vatsa - [avatsa@fdu.edu](mailto:avatsa@fdu.edu)

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