

# Symposium on Energy Asset Integrity Management

Inspection - Structural Integrity - Life Extension - Operations - Digitalization - Performance

a confluence (**Kumbha Mela**) of all energy asset  
integrity management professionals and stake holders

22nd -23rd June, 2023  
Indian Institute of Science, Bengaluru



Oil & Gas Refinery



Oil & Gas Wells



Oil & Gas Offshore



Nuclear Power



Thermal Power



Processing Industry

Organised by  
**India Energy Network**

(an initiative of Science and Engineering Foundation of India)

In collaboration with

**RGIPT**

**IISc**

**InSIS**

# Why This Symposium?

Operators/ owners of energy assets are concerned about safe and reliable operation of their assets, enhancement of productivity, reduction of downtime, asses the risk early on, mitigate risks, extend asset life and deploy advanced digital technologies to achieve the above. Symposium is organized to address some of these key **concerns of Energy Operators**.

## Objective of symposium is to provide

- an opportunity for interaction, deliberation, and exchange of ideas, sharing of best practices between all stake holders including – energy operators / owners, technology / service providers, researchers.
- an opportunity to pose the problems / challenges faced by energy companies and seek solutions from peers, solution providers, academics
- a platform for service companies, technology companies – including IT/ digital technologies, to showcase their offerings
- academics, R&D professionals to showcase the latest developments in the areas related energy asset integrity management.

## Format of Symposium

- Keynote lectures
- Panel discussions
- Contributed papers
  - Exhibition

## Who will benefit from participation?

- Management professionals in charge of Energy Assets
- Managers in charge of maintenance, inspection, and responsible for operation of energy assets
- Managers in charge of digitalization in energy companies for asset management
- Managers in charge of safety in energy assets
- Asset integrity management service and technology providers
- Providers of equipment, systems for asset integrity management including NDT, drones, inspection equipment, material testing equipment
- Companies providing digitalization solutions to energy sector including:
  - *IIoT, Edge Devices, Cloud Computing*
  - *AI/ML, Data Analytics, Digital Twins*
  - *AR/VR, Drones and Analytics*
- Start-ups working in areas symposium themes
- Faculty members, researchers, students from academic institutions

# Themes of Symposium

## Structural Integrity

Materials & Damage – Fatigue, Creep,  
Fracture, Corrosion

Remaining life assessment/ extension  
(RLA/RLE)

Fitness for service  
(FFS) / fitness for purpose)

Codes and standards  
(ASME, API Regulation)

Finite element analysis (FEA)

Pipe stress analysis

## Inspection & Testing

In-Service Inspection

NDT

Drones

Risk Based Inspection (RBI)

Engineering Critical Analysis (ECA)

Root Cause Analysis (RCA)

Material Testing



## Digitalisation

IIoT

AI/ML

Data Analytics

AR/VR

Predictive / prescriptive models

Digital Twins  
(Refinery, Wells, Power plant, etc)

## Operations

Operational control

Operational efficiency

Down time reduction

Decision support systems

Risk assessment, & mitigation

Safety

Data collection

## Submission of Abstract

Limited slots are available presentation of contributed papers in the symposium. Those interested can submit an extended abstract of less than 500 words to [info@indiaenergynetwork.in](mailto:info@indiaenergynetwork.in) before **8th May 2023**. Selected authors need to submit their presentation with notes before **31st May 2023**.

## Registration Details

(Registration fee covers symposium participation, delegate kit, lunch and coffee)

### For Indian Delegates

|                            |                                                      |
|----------------------------|------------------------------------------------------|
| Standard                   |                                                      |
| Academic (faculty members) |                                                      |
| Students                   | (10% Discount to InSIS Members)<br>(GST @ 18% extra) |

| Before<br>31st May 23 | After<br>1st June 23 |
|-----------------------|----------------------|
| Rs 12,500             | Rs 15,000            |
| Rs 5,000              | Rs 8,000             |
| Rs 3,000              | Rs 5,000             |

### For foreign Delegates

|                            |                                        |
|----------------------------|----------------------------------------|
| Standard                   |                                        |
| Academic (faculty members) |                                        |
| Students                   | (No GST needed if paid in US \$/ Euro) |

| Before<br>31st May 23 | After<br>1st June 23 |
|-----------------------|----------------------|
| \$ 250                | \$300                |
| \$ 125                | \$ 150               |
| \$ 50                 | \$ 75                |



Registration fee to be paid by bank transfer/ DD/ NEFT/ RTGS to "Indian Energy Network - Science and Engineering Foundation of India" A/c Number: 41460965924, State Bank of India: IFSC Code-SBIN0004230, Rajajinagar Industrial Estate Bengaluru.



India Energy Network (IEN) is an initiative of "Science & Engineering Foundation of India". IEN provides a platform for cross disciplinary interactions among Indian energy community including operators, technology providers, government agencies, policy makers & consumers. IEN strives towards Energy Security & Energy transition in India.



RG IPT is an institution of national importance under Ministry of Petroleum, Government of India. RG IPT has several R&D programs, academic programs related to energy including new and renewable energy. For more details visit <https://www.rgipt.ac.in/>



InSIS is a professional society uniting professionals from wide variety of disciplines that together impact safety & reliability of structures, machines, vehicles and devices. InSIS conducts a variety of programs. For more details visit <https://insis.in/>



Indian Institute of Science (IISc) is a premier R&D and academic institution conducting cutting edge research in several areas of strategic interest to India, including in energy sector. IISc has set up a interdisciplinary center for energy research. For more details visit <https://iisc.ac.in/>

For details of India Energy Network visit: <https://www.indiaenergynetwork.in/>

# SPONSORSHIP OPPORTUNITIES

Energy assets worth several billions of dollars are operating in India including Nuclear, Oil and Gas, Thermal Power Plant, and Renewables.

These assets need to be maintained, serviced, and modernized continuously.

There are initiatives for retrofit and modernization of these assets, enhance their efficiency, and extend their life.

Symposium provides an opportunity for close interaction between decision makers, executives of energy companies and asset integrity management service/ technology providers.

## Who can sponsor?

- Energy Asset owners/ operators
- Asset integrity management services providers
- Suppliers of equipment used in asset integrity management
  - Materials Testing including corrosion, fatigue, creep/vibration sensors/ dampers/scrubbers etc
- Inspection and testing service providers
- Inspection & testing equipment providers
  - NDT, Drones etc
- Digitalisation Enterprise Solution / Technology/ Platform providers
  - IIoT, Edge, Cloud computing
  - AI/ML; Data Analytics
  - Digital Twin; Predictive/ Prescriptive models
  - AR/ VR

## Sponsorship Options and Benefits

|                                                         | Platinum                                | Gold       | Silver     | Exhibitor |
|---------------------------------------------------------|-----------------------------------------|------------|------------|-----------|
| Early bird (Indian Companies) – Before 26th May 2023    | Rs 250,000                              | Rs 200,000 | Rs 100,000 | Rs 50,000 |
| Early Bird (Overseas Companies) Before 26th May 2023    | \$ 3750                                 | \$ 3000    | \$1500     | \$1000    |
| Late fee <b>after 26th May 2023</b>                     | <b>35% late fee on early bird price</b> |            |            |           |
| <b>Benefits of Sponsorship</b>                          |                                         |            |            |           |
| Table top display + Poster                              | ✓ ✓                                     | ✓          | ✓          | ✓         |
| Distribution of company promotional material            | ✓                                       | ✓          | ✓          | ✓         |
| Inclusion of Company Literature/ article in report/ web | ✓                                       | ✓          | ✓          | ✓         |
| Display of Logos in website                             | ✓                                       | ✓          | ✓          | ✓         |
| Display of Company Logo on Backdrop                     | ✓                                       | ✓          | ✓          |           |
| Panelist Opportunity / Introduced on Stage              | ✓                                       | ✓          |            |           |
| Speaking Opportunity (brief company intro)              | ✓                                       |            |            |           |
| Complementary Delegate Registrations                    | 6                                       | 4          | 2          | 1         |

For Sponsorship enquiries email [info@indiaenergynetwork.in](mailto:info@indiaenergynetwork.in) or call (cell 99000 67486). Payments to be made in favour of Science & Engineering Foundation of India - India Energy Network - by DD/ NEFT/ RTGS.  
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# Organizing Committee

## Chairman

Dr S Shamasundar  
*President, Board of Governors, RGIPT*  
*MD, ProSIM R&D Pvt Ltd*

## Members

Prof G Jagadeesh  
*IISc*

Prof ASK Sinha  
*Director, RGIPT*

Dr R Nagaraja  
*MD, PRDC Pvt Ltd*

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Prof Vikram Jayaram, IISc  
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Dr R Sunder  
*Member, InSIS Council*  
*Research Director, BiSS-ITW India*

## Symposium Secretariate

India Energy Network,  
B-378/1; 1st Stage, Ring Road,  
Peenya, Bengaluru, 560058  
Email [info@indiaenergynetwork.in](mailto:info@indiaenergynetwork.in)  
Tel: +91-80-6816-0000