



THE INSTITUTION OF ENGINEERS, MALAYSIA

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, Peti Surat 223, 46720 Petaling Jaya, Selangor Darul Ehsan

Tel: 03-79684001/2 Fax: 03-79577678 E-mail: sec@iem.org.my IEM Homepage:
<http://www.myiem.org.my>

Talk on Integrating Inventive Problem-Solving Skills in Project Management

Organised by : Project Management Technical Division
BEM Approved CPD/PDP Hours: 2 Ref No: IEM19/HQ/427/T

Date : **4th September 2019 (Wednesday)**
Time : **5.30pm – 7.30pm (Refreshments will be served at 5.00pm)**
Venue : **Malakoff Auditorium, Ground Floor, Wisma IEM, Petaling Jaya**
Speaker : **Dr Nooh Abu Bakar**

SYNOPSIS

Satisfying customer goal lies in “groups of processes” in Project Management life cycle (Initiating, Planning, Executing, Monitoring & Controlling, and Closing). The issue of process management is a recurring theme over the past decades, for which they were studied and applied methodologies, which highlight the Inventive Problem-Solving Technique (TRIZ), as an accurate methodology, based on pre-defined patterns, in order to support the resolution of specific problems, which have been mainly applied in product development.

TRIZ core concept and tools (like; TRIZ 40 Inventive Principles, ARIZ-Analytics, and the like) as well as the Project Management Processes, will be introduced. The deliberation includes description and analysis of the applicability of the proposed approach, and it ends with the presentation of the outcomes.

Project Management:

- Project management faces up to a lot of problems and challenges - needs appropriate and efficient management practices.
- Generation of innovative ideas and solutions can give considerable contribution to project success; can bring efficacy and efficiency to organizations and markets.
- Without innovation, organizations and its projects can be doomed to failure.
- The generation of ideas and innovation is crucial to the project competitiveness.

TRIZ Methodology:

- TRIZ methodology can contribute to the definition of the best project structure.
- TRIZ analytical tools can be very useful to problem solving in project management.
- TRIZ has been developed with special emphasis on product problems and product improvement. However, TRIZ is also used for process problem solving, so it can be useful for all project management issues and activities.

ANNOUNCEMENT TO NOTE

EFFECTIVE 1st OCTOBER 2017

FEES FOR TALKS

Members

Registration Fee

Free of Charge (FOC)

Administrative Fee

Online - RM15.00

Walk In - RM20.00

Non-Members

Registration Fee - RM50.00

Administrative Fee - RM20.00

Limited seats are available on a "first come first served" basis (maximum 100 participants).

To secure your seat, kindly register online at www.myiem.org.my

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TRIZ Methodology in Project Management practice:

- Using the TRIZ methodology (inventive techniques), the transfer of ideas between individuals and principles, management processes, enables a series of unpredictable interactions. These interactions can lead to unpredictable obtaining various contradictions and as a consequence, the 'chaos'. The failure to systematize similar problems and their solutions, can lead to contradictory processes in which TRIZ, can be used to avoid these processes contradictions.
- Despite principles of TRIZ Invention to be directly targeted at the area of Science and Engineering, we could possibly create principles of TRIZ Invention, directed to Project Management.
- The TRIZ methodology, with its strong theme of innovation, can contribute to accelerating the resolution of problems that may cause risks to the projects.

BIODATA OF SPEAKER

Dr Nooh is a professor, retired after serving Universiti Teknologi Malaysia (UTM) for 36 years. He has vast experience in manufacturing engineering, executive education, technology & operations management and corporate performance & strategic management. A manufacturing engineer registered to the Board of Engineers, Malaysia, a senior member of SME-USA and ASTD, and a former council member of Institution of Quality Management (IQM) and Project Management Institute-Malaysia (PMI-Malaysia) and a member of MyTRIZ and MATRIZ.

Academic, Research, Training & Consultancy:

Manufacturing, Quality, Technology & Engineering Management, Business Operations Strategy & Strategic Management, TRIZ Inventive Problem-Solving Techniques, Corporate Performance Management Systems (Balanced Scorecard and KPI System for various corporations/organizations), Technical Education Development (Academic & infrastructure), Executive Development Program (Academic & infrastructure).

Examiner for various universities' academic programs (MSU, UniKL, UNITEN, UTeM, UMP, UM, UKM, UUM, USM).

Courses offered: Transformation/turnaround Program, Corporate Performance Management (Balanced Scorecard), TRIZ Problem Solving Techniques and Research Methods. Supervised more than 50 PhD/Doctorate students examined more than 50 post-graduate students (Doctorate and Master). Published more than 100 papers in refereed journals and conference proceedings (national and international).

TRIZ related activities:

- Active in TRIZ practices in Malaysia since 2012. Now a MyTRIZ certified Level 1, Level 2 and Level 3 Practitioner, and Level 1 & Level 2 Trainer. In 2016 he was awarded a MATRIZ certified Level 3 Practitioner, (MyTRIZ is Malaysia TRIZ Association and MATRIZ is The International TRIZ Association).
- Supervised 3 PhD students and 2 Masters students, who adopted TRIZ as their research methodology.
- Facilitated solving problems by applying TRIZ in manufacturing companies, oil-palm plantation and health-care maintenance system.
- Presented technical and keynote papers in both local and international TRIZ conferences.

Ir. Wong Khien Ngie, Vincent

Chairman

Project Management Technical Division