



To: Control Systems/Automation/Instrumentation Colleague:

This letter/e-mail is an invitation for those with an interest in Control Systems, Automation, and Instrumentation to attend the monthly meeting of the local chapter of the IEEE CSS. As the chapter is in the process of being formed, all participation is welcome.

Our next meeting:

- Date: Thursday September 6th, from 6:00 to 8:30 PM
- Presentation by Arun Rau, P.Eng. PMP, Department Manager, PROJEX
- Topic: **Well Pad Instrumentation-Engineering Challenges in Specifying, Selecting and Standardizing**
- Abstract: That Alberta Oil Sands is a huge repository of unconventional oil is a common knowledge. Besides open cast mining, Steam Assisted Gravity Drainage (SAGD) and Solvent Co-injection are some of the prevalent practices for extracting bitumen from the oil deposits deep underground. Well Pads are above ground facilities erected and operated to draw the dirty emulsion before transporting it to Central Processing Facility. This paper presents an overview of typical well pad facilities with a focus on instrumentation and controls (I&C) provided for safe, maintainable and optimum operation. The I&C Engineering presents some unique challenges, due to the multi-phase nature of emulsion and the harsh operating environment. The presentation highlights the current practice in Specifying, Selecting and Standardizing Well-Pad Field Instrumentation and related Controls to meet these challenges.
- Location: 110 – 12 Ave SW, Room T1-Auditorium (Trans Alta Building)
- If the entrance door is locked, please use the buzzer for Security to open the door for you.
- A snack/light dinner will be provided.
- Due to support of several volunteers, and corporate support, there is no registration fee; however we ask you to support volunteering donations towards the food that we provide during the presentation.

Presenter of this Month:

Arun Rau, P.Eng., received his B.Sc Degree in Electrical (Electronics) Engineering from Delhi College of Engineering in 1976. His initial career was as a maintenance engineer in CANDU type Nuclear Power Plant in India. This launched his interest and passion for Instrumentation, Control and Communication Engineering. His later career with a stint in Middle East exposed him to Sea Water Desalination Industry for producing potable water and electricity as a by-product. As Project Engineer (Electrical & Instrumentation) he was responsible for Client review of designs, erection supervision, start up and commissioning of a number of power and desalination plants, water pumping stations and water





transmission systems. Attention to detail in specifying, selecting, engineering, installing, and commissioning I&C became his forte. Importance of accurate measurements and tighter control took special significance as private utilities were vying with each other for higher efficiencies and capacity utilization factors while feeding to the national grids(Water and Power). Arun currently is Department Manager of I&C at Projex, an EPC company with a market niche in Oil Sands for engineering Well Pads. Besides his continued passion for I&C his current interests are in Wireless Communication, Smart Grid Control, and Safety Instrumented Systems. He is a Life Member of Indian Nuclear Society, Senior Member ISA and Member IEEE. As active member of Project Management Institute (PMI) and APEGA he pursues his other interests in project management and mentoring.

Evening's Program:

- 5:45 Doors open
- 6:15 Introduction
- 6:30 Presentation
- 7:15 QA
- 7:30 Snack/light Dinner/Networking
- 8:00 Planning 2012 Control Systems seminars
- 8:15 Planning activities to promote the Chapter formation
- 8:30 Socializing & Networking
- 9:00 Doors closed

Background:

The idea for a local Control Systems/Automation/Instrumentation chapter was presented at last November's AGM for the IEEE Southern Alberta section. Subsequently, monthly meetings have been organized to promote the formation of a new chapter in Southern Alberta. The intent of such a chapter is to use the umbrella of the IEEE to:

- foster networking within the profession,
- to advance the knowledge of the local technical community,
- to bring together a wide breadth of knowledge across all aspects of our specialty,
- to take advantage of local expertise within academia, industry and government,
- to interact with the resources of the wider IEEE organization, and
- to interact with other local activities of the IEEE and other technical organizations.

The plan is to have regular monthly meetings, as well as special events such as tutorials and seminars. Our monthly meetings will take place on the first Thursday of each month.

Please feel free to pass along this invitation to your colleagues and friends.

For further information, please contact Matt M. Eskandar at matt.eskandar@mrcsi.com.

If you would like to have your e-mail address removed from IEEE Control Systems/Automation & Instrumentation distribution list, please reply back to IEEE_CSS_Dist@shaw.ca.