

PPCHEM FORUM SOUTH AFRICA

PPCHEM Forum South Africa
The Venue, Pretoria, South Africa
November 13–14, 2019



Speakers

Ken Galt, Eskom Holdings SOC Ltd., SA
Dan Quigley, Sentry Equipment Corp., USA
Nestor van Eeden, Eskom Holdings SOC Ltd., SA
Michael Rziha, PPCHEM AG, Switzerland

Plant damage caused by corrosion, unplanned shutdowns, and/or impairment of efficiency and plant performance for chemical reasons are still among the major root causes of huge economic losses. Often an inadequate selection of the individual chemical regime or inappropriate chemical monitoring in conjunction with countermeasures applied too late are reasons for these setbacks. The forum will demonstrate by selected case studies the possible negative economic impacts as well as how an optimum plant chemistry and strategic management planning can contribute to improving the economic situation of the individual plant.

A fundamental understanding of the interaction between the water qualities occurring in the power plant, the various materials used, and the different processes and conditions of the individual systems is of essential importance to avoid these impacts and to improve the economic benefits. This forum offers easy-to-understand insights into the aims and tasks of power plant chemistry, as well as into the necessary basics, such as water chemistry, corrosion science, etc., not only to chemical specialists, but also to the "non-chemist".

The different possible operating regimes, the relevant guidelines (e.g. IAPWS, EPRI, VGB), and the correct and optimum selection and application in relation to the individual plant design will be demonstrated, as well as the necessary considerations for the operational monitoring concept.

- This international PPCHEM Forum brings together operational personnel, technical managers, plant engineers, boiler operators, cycle and plant chemists.
- This PPCHEM Forum is dedicated to advancing newest issues and developments in the power industry with special focus on cycling plants.
- This PPCHEM Forum will feature presentations on plant operation, layup, and chemistry. It will also feature interactive discussions with presenters, equipment specialists and users.
- Attendees will receive unbiased details about the latest issues and developments in the industry and will hold wide ranging discussions with their peers active in power plant chemistry.

Venue

The Venue Summit Place, 221 Garsfontein Road
Summit Place Office Park–Pretoria



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Agenda

Wednesday, November 13

07:00 – 08:00	Registration
08:00 – 08:15	Welcome and Opening Remarks <i>Michael Rziha</i>
08:15 – 09:45	Case studies of damage and impairment due to chemistry and the relevant economic effects <i>Michael Rziha</i>
09:45 – 10:15	Coffee / Tea
10:15 – 11:15	Steam and Water Sampling Lines & Probes <i>Dan Quigley</i>
11:15 – 12:15	Flow Accelerated Corrosion (FAC) <i>Michael Rziha</i>
12:15 – 13:15	Lunch
13:15 – 14:15	Cycle Chemistry for once-through air-cooled condenser plant <i>Ken Galt</i>
14:15 – 15:15	How do Eskom Cycle Chemistry Standards compare against internationally recognized Standards/Guidelines (EPRI/VGB/IAPWS)? <i>Ken Galt</i>
15:15 – 15:45	Coffee / Tea
15:45 – 16:30	Q&A and Discussion "Effective cycle chemistry management"
TBA	Joint Dinner

Thursday, November 14

08:00 – 09:30	Stand still corrosion and stand still protection <i>Michael Rziha</i>
09:30 – 10:00	The IAPWS TGD on Film Forming Amines <i>Michael Rziha</i>
10:00 – 10:30	Coffee / Tea
10:30 – 11:00	Technical Basis and Management Planning for a Power Plant Chemistry Programme <i>Nestor van Eeden</i>
11:00 – 11:45	PWR Secondary System - Experience with Advance Amine Conditioning <i>Nestor van Eeden</i>
11:45 – 12:45	Lunch
12:45 – 13:45	Condensate polishing for once-through air-cooled condenser plant <i>Ken Galt</i>
13:45 – 14:30	Total Iron a big issue in cycling plants <i>Michael Rziha</i>
14:30 – 15:00	Coffee / Tea
15:00 – 16:00	Latest Developments and News at IAPWS <i>Michael Rziha</i>
16:00 – 16:30	Q&A and Discussion
16:30	End of Forum

