

Registration Form

Information



Corrosion in the Pulp and Paper Industry

20-21 May 2010 Rotorua

Name: _____

Position: _____

Company: _____

Address: _____

Postcode: _____

Phone: _____ Fax: _____

Email: _____

Appita Member Yes/No Membership No

METHOD OF PAYMENT (please tick)

Cheque Credit Card Direct Debit Invoice

CREDIT CARD DETAILS:

Visa MasterCard American Express

* Please note: VISA & MC incurs a 4% and AMEX a 3% surcharge.

CARD NUMBER: _____

EXPIRY DATE: ___/___/___ AMEX 4 DIGIT NUMBER: _____

NAME ON CARD: _____

Fee (incl GST): Member \$1200 Non-member \$ 1500

Non Member Multiple Rate: 5 or more from one site 10% discount

DIETARY OR OTHER SPECIAL REQUIREMENTS? _____

PLEASE RETURN by **Wednesday 31st March 2010** TO:

Appita
P O Box 6042
Whakarewarewa, Rotorua 3043, New Zealand
Tel: (07) 350 2252 Fax:: (07) 350 2253
Email: nz@appita.com

A Confirmation Advice/Tax Invoice will be sent on receipt of the Registration form.

Venue

The Course will be held in the Rimu Room at Scion, Te Papa Tipu Innovation Park, 49 Sala Street, Rotorua. Once you have entered the Scion campus, follow the signs to Reception and you will be directed to the Rimu Room

Parking

Parking is available on the Scion campus

Accommodation

Accommodation costs are not included in the course fee and registrants are expected to make their own arrangements. Appita is unable to recommend any specific accommodation, however there is a good range of accommodation in the Fenton Street/Sala Street area, close to Scion.

Cancellation policy

Appita reserves the right to charge registrants a fee if they cancel after registering and making payment. For cancellations less than two weeks prior to the course a 15% cancellation fee will apply, and for less than one week prior the fee is 25%. **No refund will be given for non-attendance after the course has commenced.**

Disclaimer

The course outlined in this brochure is planned to be held at the time of publication of the brochure. Appita reserves the right to cancel the course or alter the contents of the course. Every attempt will be made to inform interested parties of any changes.

Additional Courses

Appita is the industry Association – your Association. Our goal is to provide career development opportunities for operators, production and maintenance people throughout the industry. Help us to help you. If you have the need for a particular course, let us know! If we can put a suitable course together and break-even financially at least, we will consider it. We will even run a course at your site. Tell us what you need.



Appita, the association serving the Australia and New Zealand pulp and paper industry since 1947

www.appita.com.au

2010 Short Courses

**Corrosion
in the
Pulp &
Paper
Industry**

**20-21st May
2010**

**Scion
Te Papa Tipu
Innovation Park
Rotorua**

Corrosion in the Pulp & Paper Industry

20-21 May 2010

THE EIGHT FORMS OF CORROSION

1. General corrosion
2. Galvanic corrosion
3. Pitting corrosion
4. Crevice corrosion
5. Erosion corrosion
6. Intergranular corrosion
7. Selective leaching
8. Stress corrosion

METALLURGY FOR PULP AND PAPER

- Carbon and stainless steels
- Castings
- Welding
- Heat treatment

CORROSION IN THE BLEACH PLANT

- Corrosion mechanisms
- Polarization curves
- Corrosion of C- & D-stage bleach washers
- External corrosion of oxygen reactors

CORROSION IN THE PAPER MACHINE

- White water compositions
- Materials of construction
- Wet end and dry end corrosion problems
- Rotating equipment (suction rolls, shafts, journals)

CORROSION IN ALKALINE PULPING LIQUORS

- Liquor compositions
- Corrosion mechanisms
- Corrosion in liquor tanks

CORROSION OF BATCH DIGESTERS

- Batch digester liquor compositions
- Corrosion mechanisms
- Protection of batch digesters
- Duplex stainless steel batch digesters

CORROSION OF CONTINUOUS DIGESTERS

- Corrosion and cracking problems top to bottom
- Bottom Scraper Cracking
- Central pipe cracking

PROTECTION OF CONTINUOUS DIGESTERS

- Anodic protection
- Thermal spray coating
- Stainless steel lining
- Weld overlay
- Duplex stainless steels

CORROSION OF DIGESTER ANCILLIARY VESSELS

- Flash tanks
- Chip bins
- Steaming vessels
- High pressure feeders
- Diffusers
- Sand separators

CORROSION IN MECHANICAL PULPING

- Corrosion in disc refining
- Corrosion in pressurized equipment
- Corrosion in hydrosulphite brightening

CORROSION OF EVAPORATORS

- Evaporator types
- Internal corrosion
- External corrosion

CORROSION OF RECOVERY BOILERS

- Tubes
- Corrosion in the lower furnace
- Corrosion in the upper furnace
- Corrosion in the back of the furnace
- Waterside corrosion

The program will include group exercises and attendees are encouraged to bring along real life examples and samples from their workplaces.

This course is endorsed by FITEC, New Zealand's pulp and paper industry training organisation. The knowledge gained from participation in this course may assist you in gaining unit standards toward relevant national qualifications in pulp and paper



Who Should Attend?

Anyone who wants to gain an increased understanding of corrosion in the pulp and paper area. This includes maintenance, operations, engineering and technical personnel as well as equipment suppliers and technical reps for raw materials, chemicals, etc. Corrosion is a major cost to our industry so this course can be viewed as a practical way to get some ideas for preventing corrosion in our mills.

The Course

The course covers corrosion in all areas of the pulp and paper mill (kraft liquors, digesters, recovery boilers, bleach plant, mechanical pulping, NSSC and paper machines).

Angela Wensley is the principal lecturer. Angela is well respected as an expert in the field. Appita ran this course in NZ in 2005 and 2007, and it was very well received by those who attended. Course ratings were excellent - *"The best technical course I have ever attended."*

The course will be illustrated with many examples from Angela's practical experience. Attendees are encouraged to bring along real life issues, and samples, from their workplaces.

The Presenter

Angela Wensley, PhD, PEng
Pulp and Paper Corrosion Specialist
Angela Wensley Engineering Inc.
15397 Columbia Avenue, White Rock, BC, Canada V4B 1K1

Course Fees (Inc. GST)

Fee: Member \$1200 Non-member \$ 1500
Non Member Multiple Rate: 5 or more from one site 10% discount

Appita Membership benefits apply from the time we receive your Application Form. Persons submitting a Membership Application Form with the course registration form will receive the member discount.

Included in the fee

All catering, stationery, course notes. A CD of colour photos (pdf) will be supplied. (NB: these photos are the property of Angela Wensley. They are for the use of course participants only, & may not be copied for other uses).

