



Water Environment
Association of
Ontario

&



water environment association of ontario

In keeping with the Water Environment Association of Ontario's (WEAO) New Professionals (NP) commitment to continuing education through technical development, the WEAO NP Committee is pleased to present the latest technical seminar on the topic of "Polymers and Polymer Systems". This seminar will focus on the theory and practical applications of polymers and polymer system for the wastewater treatment industry.

Speakers for the event include Dan Veneruzzo of Ciba Specialty Chemicals (www.cibasc.com) and Max Rao, P.Eng. of Indachem Inc. (www.opcea.com/company/indachem.html). Their respective topics include the following:

CIBA SPECIALITY CHEMICALS TOPICS:

presented by Dan Veneruzzo

Polymer Chemistry

- Functional Types, Descriptions
- Characteristics
- Coagulation and Flocculation
- Safety & Handling / Emergency Response
- General Data Sheet / Typical Material Safety Data Sheet

Polymer Applications

- Clarification
- Advanced Primary Treatment
- Dewatering
- Waste Activated Sludge Thickening

Jar Testing Methods

Ciba Specialty Chemicals Background

INDACHEM INC. TOPICS:

presented by Max Rao

Proper Polymer Preparation/Hydration

- Moment of Initial Wetting (M.O.I.W.)
- Agglomeration versus Fragility
- Rate of Hydration
- Mixing

PolyBlend Models

- Polymer Make-up Methods
- Dry Polymers versus Liquid Polymer

Systems

- Evaluation of Polymer Systems
- Control Options
- Operation of Polymer Systems

Polymer System Design

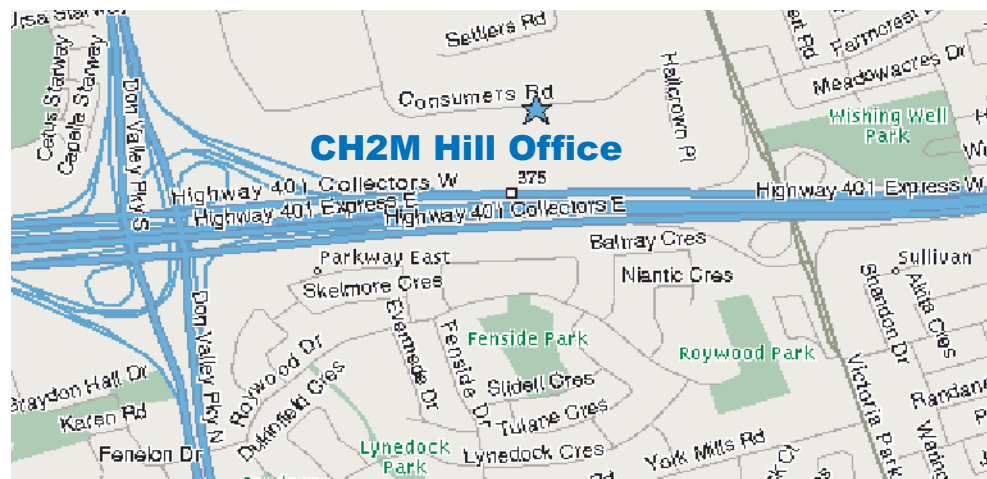
- Required Design Information
- Post Dilution
- Accessories

Polyblend Model Selection

The WEAO NP Committee has been created to represent those WEAO members with ten (10) years or less of experience in the wastewater industry, or less than 35 years of age. Our primary goal is to recruit, develop programs for, and encourage participation of New Professionals in WEAO activities.

Please join us for this opportunity for networking, social interaction and technical development on **Thursday the 19th of August from 6:00 to 8:00 pm**. Please RSVP by contacting Dean Whittaker at deanw@kmc.ca no later than Thursday August 5th.

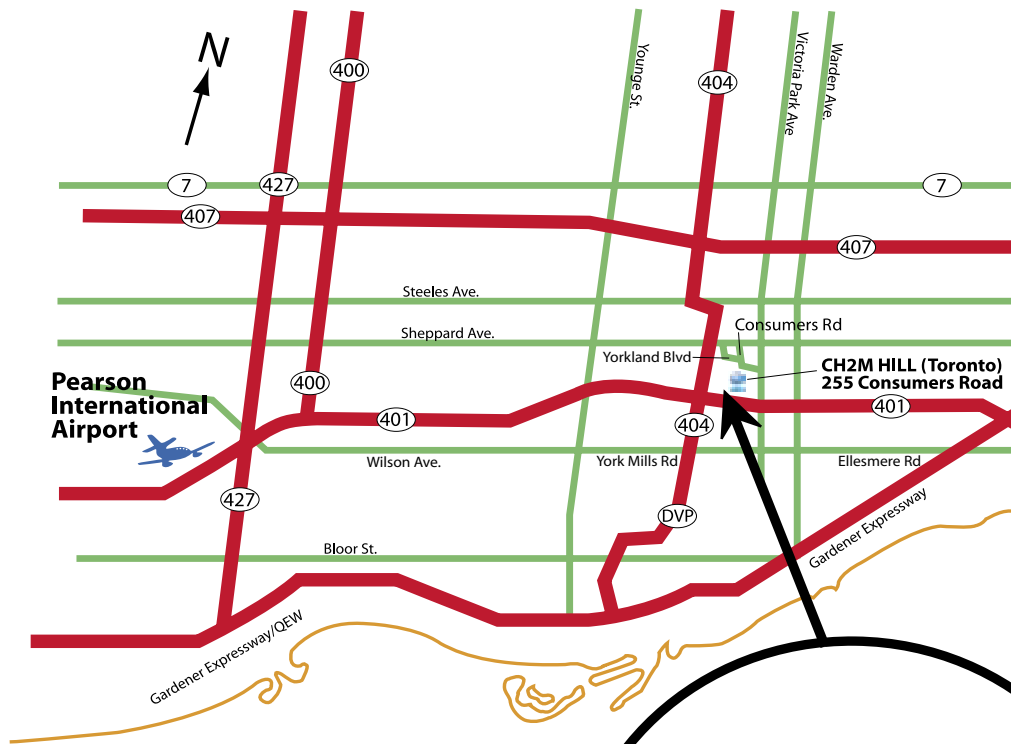
The seminar will be held at the Toronto Office of CH2M Hill Canada Limited, 255 Consumers Road, Suite 300, as indicated in the map below. Please note there is no charge for this event, other than parking. Dinner will be included as part of this event on behalf of the presenters.





CH2MHILL (Toronto office)

CH2M HILL (Toronto)



From Pearson International Airport to CH2M HILL - Toronto

1. Take Hwy 401 East to Victoria Park Ave exit
2. Exit at Victoria Park, turn Left on Victoria Park Ave
3. At second traffic light make a left turn onto Consumers Road
4. Turn Left at 255 Consumers Road (CH2M HILL Toronto)
Visitor's parking is on the left.

From Downtown Toronto (QEW or Lakeshore Blvd)

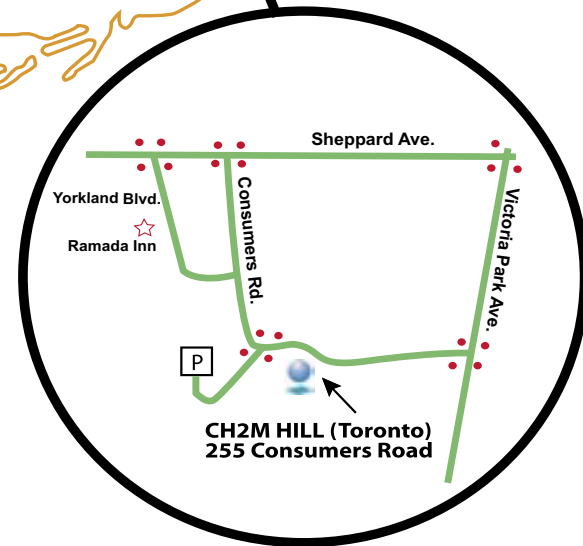
1. Take the Don Valley Parkway (DVP) North
2. Turns into Hwy 404 North
3. Go to Sheppard Avenue, and go east
4. East on Sheppard Avenue (stay to right lane)
5. First light is Yorkland Blvd
6. Turn south on Yorkland Blvd, follow around (past Ramada Inn) to Consumers Road, turn right at lights for visitor's parking

From North Hwy 400 (Parry Sound, Barrie)

1. Take Hwy 400 Southbound to Hwy 401
2. Go East on Hwy 401 to Victoria Park (just past Don Valley Parkway)
3. Exit at Victoria Park Avenue and go north
4. Take the bridge over Hwy 401 and keep to the left lane
5. After the second set of lights is Consumers Road, follow along west on Consumers Road to lights turn right at lights.
Visitor's parking is on the left

From North Hwy 404 (Newmarket, Buttonville Airport)

1. South on Hwy 404 to Sheppard Avenue
2. Exit Sheppard Avenue East (stay to right lane) to first light and go south
3. Stay to right lane to next light and go east
4. First light is Yorkland Blvd
5. Turn south on Yorkland Blvd, follow around (past Ramada Inn) to Consumers Road, turn right at Consumers Road.
Go to 255 Consumers Road



From East Hwy 401 (Quebec, Ottawa, Pickering)

1. Exit at Victoria Park Avenue and go north
2. Take the bridge over Hwy 401 and keep to the left lane
3. After the second set of lights is Consumers Road, follow along west on Consumers Road to lights turn right at lights.
4. Visitor's parking is on the left

| | | | | | | |
|--|---|--|--|--|---|--|
| TORONTO (416) 499-9000 Speed Dial: 66 | WATERLOO (519) 579-3500 Speed Dial: 36 | CALGARY (403) 237-9300 Speed Dial: 18 | BARRIE (705) 722-880 Speed Dial: 95 | NIAGARA (905) 684-7425 Speed Dial: 97 | OTTAWA (613) 723-0233 Speed Dial: 98 | VANCOUVER (604) 684-3282 Speed Dial: 92 |
|--|---|--|--|--|---|--|