

# The FUNDAMENTALS of GROUNDWATER TRAINING

Hamilton, 16th and 17th May 2017

**Emphasis on New Zealand conditions and case studies**

**We've listened.**

**We have spent 3 years refining the course and this year we will have a New Zealand focus with real New Zealand problems. There will be specialised streams.**

**Led by New Zealand's most experienced practitioners**

**What do you get?**

- In-depth training from leading industry experts
- Connection with other professionals
- Workshop exercises
- Time for questions - not just lecturing
- Great food and a great environment
- Comprehensive course booklet

**Who should attend?**

**Consultants  
Drilling personnel  
Health practitioners  
Consenting scientists**

**Ideal for new entrants to the industry and for current professionals seeking to update their skills**

**Where** Novotel Hamilton Tainui  
**Costs** \$1,450+GST  
**Early bird discount before 20th January - 10%**  
**Group Discount 10%**

**Day 1**

Water and Us  
New Zealand groundwater issues  
Hydrogeology  
Groundwater Storage  
Groundwater Flow  
Groundwater/Surface Water Interactions  
Workshop  
Quality and Chemistry of Groundwater  
Locating Groundwater

**Day 2**

Groundwater recharge and discharge  
Groundwater Extraction  
Estimation of Aquifer Parameters  
Workshop  
Catchment Data Collection and Monitoring

**Agricultural Business Associates**

**GOLOVIN**

**Terra Aqua Consultants**

## Course Leaders

### **Fred Phillips**

### **Natural Resource Engineer**

Fred has spent 50 years working with water in the rural and recreational sectors focused on design and supervision of water supplies, irrigation, frost protection and drainage at individual and community scheme levels. This has meant a significant role in developing suitable water sources both surface and groundwater and meeting the requirements of the Resource Management Act as it has evolved over the last 30 years.

Initially started as an agricultural engineer with the then Ministry of Agriculture and then established Agricultural Business Associates in 1993 with two colleagues to consult to the Primary sector.

Spent a short time working on a cable tool drill rig in the Manawatu and for the last 23 years, he has worked with drillers, primarily in the North Island, sourcing irrigation water for clients and monitoring and assessing bore and aquifer performance through various Regional Council consent processes.

### **David Whyte**

### **Hydrogeologist, Engineering Geologist**

David has spent 34 years working in the geological sciences, principally in the field of hydrogeology. He has worked on a wide variety of projects involving groundwater ranging from town water supply, irrigation water and contamination issues to mine dewatering and landslide stabilisation measures.

David has extensive experience in drill rig supervision, core logging and the design of water supply wells. He has worked throughout New Zealand, and with some projects in Australia, Fiji and Indonesia.

David commenced work as an engineering geologist before focussing on groundwater as an area of specialisation. He has experience preparing Assessments of Environmental Effects for consent applications, so is familiar with the Resource Management Act and the consent application process.

### **Dr Steven Joynes**

### **Course leader and civil engineer**

Steve has Ph.D. in Computational Hydraulics. He has 32 years experience in hydraulic modelling of all types of water resource problems. Since working as a free-lance consultant he has worked for six regional councils, over 20 district and city councils and numerous surveyors/engineering companies.

He established training course for professionals in 2010 and has presented and organised courses for over 350 scientists, engineers and health practitioners.

### **Waikato Regional Council groundwater specialist**

Last year we had John Hadfield who spoke about relevant issues to his council and NZ-wide. It was very well received. He or another staff member will give a guest speaker.

### **Course Questions**

If you have any questions about the course either

call Steven on 07 834 139 or 021 834 139, or email [steven@golovin.co.nz](mailto:steven@golovin.co.nz)

## Registration Details (one page per registrant)

Name \_\_\_\_\_

Organisation \_\_\_\_\_

Job title \_\_\_\_\_

Postal Address \_\_\_\_\_

Purchase Order Number \_\_\_\_\_

Email contact \_\_\_\_\_

Dietary requirements \_\_\_\_\_

### **Terms and Conditions**

If you cannot attend a course, a substitute participant is welcome.

If you withdraw from a course in writing or email more than 20 working days prior to the course, you will receive a full refund less a \$200 administration fee.

If you withdraw within 10 working days, you will receive a 50% refund.

If a course is rescheduled or cancelled you will be advised 20 working days before the course and your course fee will be refunded in full.

Participants are responsible for their own travel/accommodation bookings and no compensation will be made should the course be rescheduled or cancelled.

### **Registration**

Email registration form to [steven@golovin.co.nz](mailto:steven@golovin.co.nz)

### **Payment**

An invoice will be issued when your registration is received.