MONDAY 3 September

9:30
Opening remarks

10:15
Modelling of artificial groundwater recharge (1)
W. Kienast

STH Zürich, Switzerland

GW MANAGEMENT AND COMPLEX GEOLOGICAL SETTINGS I CHAIR: WOLFGANG KIENAST

10:45
Quantitative impact assessment of an open-pit mine in south-

Woodland, Canada

Canada’s context (9)

11:00
Prospects of groundwater influenced flooding of the rising

China (4)

11:15
Skides on the groundwater modeling and protection area

Q. Zhao, J. Liu, L. Li, Y.-H. Wang

DHI China, PRC

11:30
Comparison of methods used to realise site level with
depth/undertaken using FEFLOW (2)

P. O. Sinten, J. L. Menna

Aquagis, Conilla, USA

11:45
Designing a mine water management plan with low environ-

B. Becker, F. M. Evers,

Forbes Metals Group, Perth, Australia

12:00
Lunch break

13:00
Tea/coffee break

13:15
DEALING WITH UNCERTAINTIES IN GROUNDWATER PROTECTION

Waterloo University, Canada

GW MANAGEMENT AND COMPLEX GEOLOGICAL SETTINGS II CHAIR: EMIL FRANDEL

13:45
Challenges in using FEFLOW in large infrastructure projects (3)

C. H. Hau, M. R. Styl-

GEO, Lyngby, Denmark

14:00
Elaboration of numerical models for the simulation of
groundwater flow in Northern Switzerland (6)

J. Liu, B. Monninger,

DHI Germany, Berlin, Germany

14:15
Understanding complex well functioning including infrath-

S. Lopiero, Y. Rosier,

D. Caillat, P. Giraud

14:30
Future design of the new ERA-3D modeling of ground-

S. Simon, C. de Clé,

Geological Survey of Japan, AIST / Böhringer, Oberwil, Schweiz

14:45
Testcases break

15:15
On the use of some specific transport solutions for the calcu-

F. A. Carraton

DHI-WASY Berlin, Germany

15:30
EXTENDING THE SCALE OF FEFLOW I: FABN CARRATON

Beyond groundwater modeling: integrating groundwater and

Douglas K. Graham

DHI Australia, Sydney, Australia

16:00
Coupled surface-subsurface water flow simulation for
treatment of subsurface food contamination (14)

B. Becker, F. M. Evers,

Delft Hydraulics, The Netherlands

16:15
Coupled coupling of FEFLOW and MIN3 SHE (15)

K. V. G. Patwardhan, M. B. Buts, J. Grisogono, D. Grisogono,

DHI Denmark, Aarhus, Denmark / DHI Australia, Sydney, Australia / DHI-WASY Berlin, Germany

16:30
A FEFLOW 4.0 plug-in for mechanical coupling (14)

W. Wåhlin, H. F. Beneke,

TU Delft, Germany / University of Minnesota, USA

16:45
Advancing geological model development for FEFLOW -

T. D. Kron, R. Lane

Southwest Research Institute, San Antonio, Texas / University of Western Australia, Australia

17:00
Coupled surface groundwater and groundwater exchange model-

T. Stueck, N. Monninckx,

DHI-WASY Berlin, Germany

17:15
Pasta dinner, wine & beer

TUESDAY 4 September

9:30
Environmental models - reality right but quantitatively

J. Doherty

Watermark Numerical Consulting, Brisbane, Australia

CALIBRATION, UNCERTAINTY & OPTIMIZATION CHAIR: JOHN DOWHER

9:30
Use of cloud computing to calibrate a highly

K. Healy, J. Schumacher,

Mitra Solutions, Calgary, Canada

9:45
The wisdom of crowds in hydrogeology - a conceptual

R. D. G. Mason, R. G. Granum,

MOLEX, Kiel, Germany

10:00
Examples of applications of the platform implemented, in-

G. Masset, J. Peppel

Alt-Codex, Baden, Switzerland

10:15
Testcases break

10:45
Modelling of complex mine settings in the Peruvian Andes (12)

R. Dahl, G. Mariscal, H. R. Andrade,

Golden Associates, Redland, USA

11:00
Assessing the thermal regime of groundwater withdrawals

N. M. Barbiotti, J. Randell,

Golden Associates, Ltd, Cobble Hill, BC, Canada

11:15
Uncertainty in aquifer depressurization in the presence

P. K. Lawrence, K. Bavister,

DHI-WASY Berlin, Germany

11:30
Lunch break

Panel Discussion (28)

Groundwater models - aspiration vs. reality

13:00
It’s the classical dilemma faced by groundwater consultants: the client provides sparse and fuzzy input data yet expects

T. H. Clausen, R. Gründler,

DHI-WASY Berlin, Germany

14:00
Local balance accuracy in finite elements: myths and truth (27)

H.-J. G. Diersch

DHI-WASY Berlin, Germany

GEOTHERMICS I CHAIR: HANS-JÖRG S. DIERSCHE

14:30
Bionomics heat exchanges: sensitivity analysis of the most

A. Cesseaux, R. Selli

Politecnica di Torino, Italy

14:45
Vegetating a high resolution numerical model of a basaltic

W. Wagner, P. Ryan,

Koch Institute for Technology / University of Stuttgart, Germany / STH Zürich, Switzerland

15:00
Low-temperature geothermal waste heat utilization from
devonian basium operations (16)

R. A. Schmuckler,

University of Western Ontario, Canada

15:15
Testcases break

15:30
Thermal effects of hydrogeological processes on closed loop

S. E. Dehkordi, A. Przybycin,

DHI-WASY Berlin, Germany

16:00
Numerical modelling and sensitivity study of cold-olive

diettevangelis, N. Kalogerakis,

DHI-WASY Berlin, Germany

16:15
Groundwater flow and heat transfer modeling to estimate

M. Yottaka, U. Ivashin,

Kyushu University, Japan

16:30
Conference dinner & boat trip

WEDNESDAY 5 September

9:00
Verify density groundwater flow: Approaches, challenges and future possibilities (34)

C. Sienow

Flinders University & National Centre for Groundwater Re-

search and Training, Adelaide, Australia

9:30
2D process modeling of flow as well as line and two

J. Popper, G. Beresz, E. Montrachet

AF-Consult, Baden, Switzerland / AQUAGIS, Berlin, Germany

9:45
The evolution of native intrusion into the Leadville aquifer and its implications for sustainable groundwater supply (36)

A. Brooker, P. Commander

NTSC, Perth University of West-

10:00
Conductive and convective heat transport within the

B. G. Keller, M. Cacace,

University of Melbourne, Australia

10:15
Testcases break

10:30
GEOTHERMICS II CHAIR: ROBERT SCHÖNCHARDT

10:45
Modeling of deep geothermal reservoir for a technical

F. D. Christensen

Ramboll, Copenhagen, Denmark

11:00
Geothermal scenario modeling at deep aquifers of the

S. Hoyer, M. Stiltig,

Geological Survey of Austria

11:15
Transparent numerical groundwater modeling for assessment of

C. G. Hillebrandt, R. Hendriks

GEOCONSULT, Salzburg, Austria

11:30
Geothermal modeling of city district level for optimised

G. Geißler, B. Caudera

Ardois, Echiride, France

11:45
Lunch break

13:15
Shows show

FEFLOW 6.1 — COMPLETING A SOFTWARE GENERATION CHANGE

13:30
FEFLOW today's demands of groundwater and porous media modeling

V. Clauder

DHI-WASY Berlin, Germany

Beyond the new G4 Distinctive features of FEFLOW 6.1

R. Gründler

DHI-WASY Berlin, Germany

The FEFLOW Development and Service Teams answer questions from the audience and demonstrate key features of the recent release, including:

• Analytical and logical expressions for selection and assignment operations
• Enhanced modeling of borehole heat exchanges
• Powerful new visualization features
• SMOF solver control and performance
• PEST interface

15:00 Closing session

15:15 End of prelimentary session, open-end discussion

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