

Education evenings 2016

*Practical introduction
to groundwater modelling*

Computer exercises
01 01 General introduction

Contents of this short course (1/2)

✓ 01 Evening 1

- 01 General introduction
- 02 Introduction to ModelMuse
- 03 Our first MODFLOW model
- 04 Adding features to our model

✓ 02 Evening 2

- 01 A more complex model
- 02 Calibrating the more complex model

Contents of this short course (2/2)

✓ 03 Evening 3

- 01 RMA example model
- 02 Particle tracking
- 03 Solute transport simulation
- 04 What else?

✓ 04 Additional exercises

- 01 Grid design
- 02 Troubleshooting exercises
- 03 MODFLOW LGR

Software we will use

✓ Pre- and postprocessors

ModelMuse 

ModelMate 

ModelViewer 

GW_Chart 

Make sure these are installed!
See /00_before_the_course/ !



✓ Codes

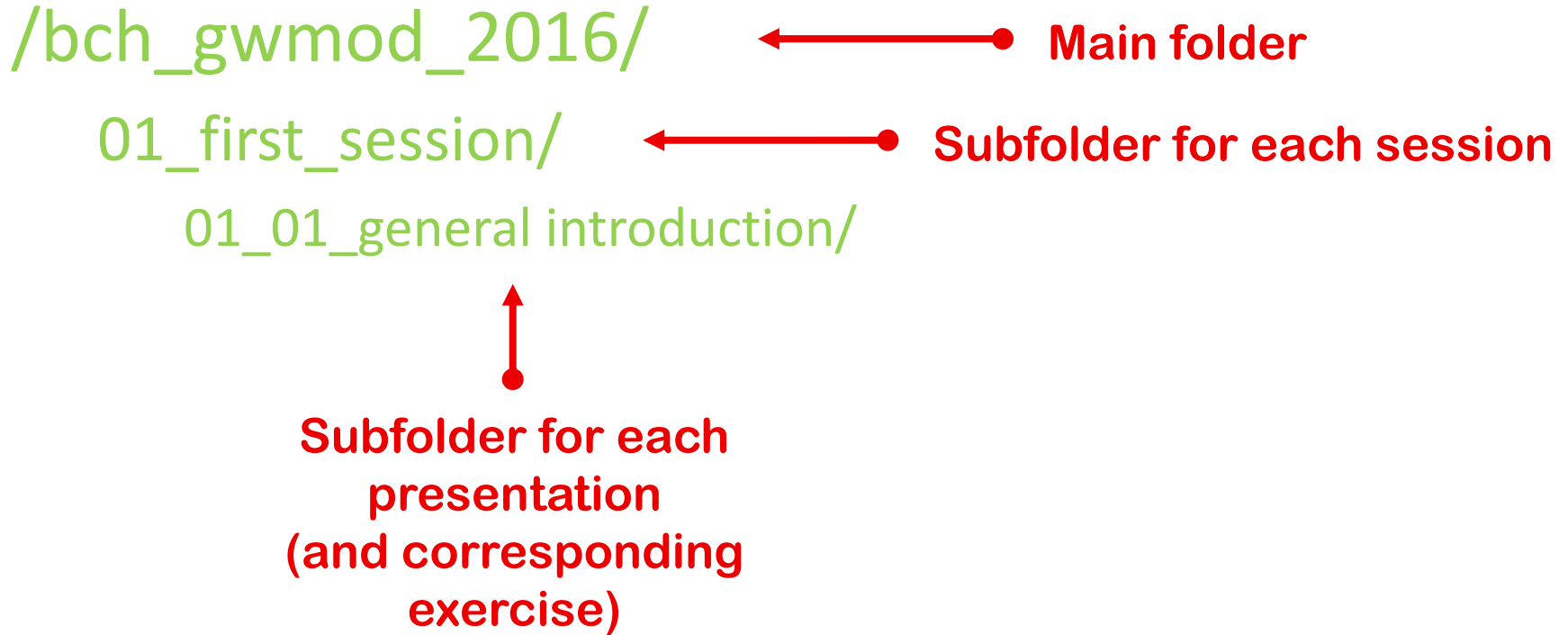
MODFLOW 

MODPATH 

MT3DMS 

UCODE 

Folder structure (1/2)



Folder structure (1/2)

/bch_gwmod_2016/

00_before_the_course/

01_first_session/

02_second_session/

03_third_session/

04_additional_exercises/

05_software/

06_solutions/

How to install
everything

A red arrow points from the text 'How to install everything' to the folder '00_before_the_course/'.

When we would
have time left...

A red arrow points from the text 'When we would have time left...' to the folder '04_additional_exercises/'.

All required codes
and setup files

A red arrow points from the text 'All required codes and setup files' to the folder '05_software/'.

Example ModelMuse files
for all exercises

A red arrow points from the text 'Example ModelMuse files for all exercises' to the folder '06_solutions/'.

Acknowledgements (1/2)

- ✓ A large part of the exercises is based on training materials generously provided by Richard Winston (ModelMuse Class Nov 2010 + ModelMuse help examples)
- ✓ Ned Banta is acknowledged for providing an update of the dll file accompanying ModelMate – Update: new version (1.0.3) is online since this Tuesday!

Acknowledgements (2/2)

- ✓ All other people who have worked on the programs and codes we will be using (you can find their names on the websites). Without them, this practical introduction to groundwater modelling with open source tools would not have been possible today.

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*Questions? Found an error?
Please contact B. Rogiers at brogiers@sckcen.be.*