



Training Workshop

(Preconference workshop to 2nd Indian Near Surface Geophysics Conference & Exhibition)
www.NearSurfaceGeophysics.in

Resistivity and Induced Polarization workshop

Date : 6th November 2023
Venue : Hotel The Suryaa, New Delhi (India)
Language : English

This workshop is suitable for geophysicists/geologists/engineers interested in resistivity and induced polarization (ERT/IP) surveys and students/staff at academic institutions involved in research on the ERT/IP method, having a basic knowledge of geophysical survey methods.

Level: Beginner/Intermediate

The ERT/IP method is widely used for hydrological, environmental, engineering and mining surveys to map the subsurface resistivity and chargeability.

In this workshop, we will cover the basics of the ERT/IP method and go through all steps from processing and inversion of data examples to visualization of model results.

This course uses hands-on activities to demonstrate importing data, removal of bad data points, data inversion, model discretization, damping/smoothing settings and creating visualizations of inversion results. Participants will also take away an overview of current best practices for resistivity and IP data processing and inversion.

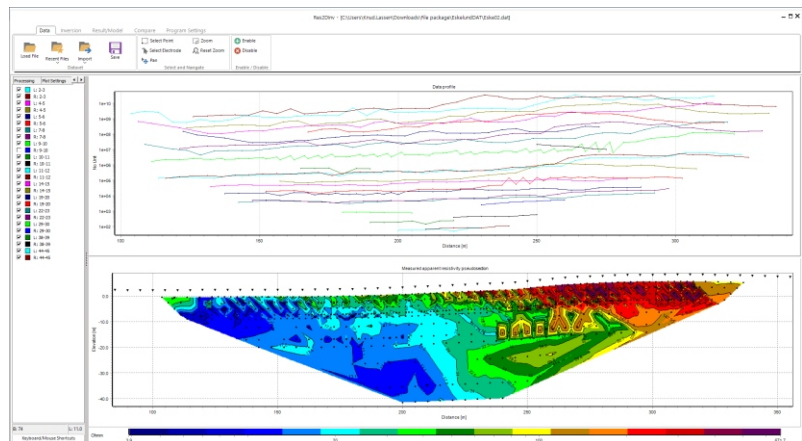
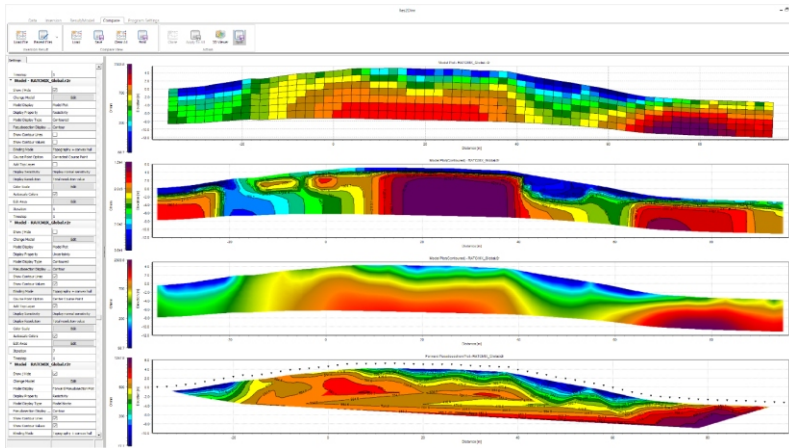
The course will be using the new 2023 version of Res2DInv with a completely new user interface and the known Res3DInv.

Registration includes complimentary access to everything you need for the course, Res2DInv and Res3DInv complementary licenses.

What will the course cover?

- Introduction to Res2DInv and Res3DInv
- Basic theory of IP and resistivity surveys
- Basic overview of inversion methods
- Working with .dat files and related conversions
- Processing 2D and 3D time-domain and frequency-domain data from dipole-dipole, pole-dipole, pole-pole, and gradient survey configurations
- Handling different instruments and arrays
- Performing interactive quality control
- Adding georeferencing and topographic information
- Plotting model and data pseudo sections
- Inversion settings and options
- Adding prior information
- Troubleshooting problematic inversions
- Display sections

Hands-on exercises at the workshops will be sent to participants along with license information before the course. For hands-on exercises, please bring your own laptop.



Facilitators



Mr. Toke Søltøft
Geophysicist and director
for AGS at Seequent

Toke has a MSc in geophysics from the Hydro Geophysics Group, Aarhus University (Denmark)
He has Worked at CSIRO, Perth (Australia) with airborne EM data, Engineers without borders as project manager on groundwater projects (Ghana), Avannaa in seismic field projects (Greenland), SkyTEM Surveys (Denmark) as field manager, and the HydroGeophysics Group from Geoscience, Aarhus University as geophysicist working with hardware development.
In 2015, Director of Aarhus GeoSoftware (Denmark), a software company developing software for processing, inversion and visualization of electromagnetic and electrical imaging data.
In 2021, Aarhus GeoSoftware joined Seequent where Toke is director today.



Dr. Kenni Dinesen Petersen
Geologist and software developer
for AGS at Seequent

Kenni has an academic background in geodynamics where he developed numerical methods for modeling thermomechanical and thermodynamic processes in the Earth's mantle. He finished his PhD at Aarhus University in 2010 and carried out postdoctoral at Lamont-Doherty Earth Observatory of Columbia University.
He joined AGS in 2019 and works on development and support of Res2DInv, Res3DInv and other AGS products. He is interested in developing and implementing efficient algorithms and enjoys helping out our customers processing and inverting their often complex and vast ERT/IP data sets.

Fee Structure & Registration:

INR 6,000 (for Indian participants) or Euro 200 (GST @18% or as applicable will be charged extra), inclusive of morning- evening tea & Lunch. A discount of 20% for students and 10% discount on group booking of 04 or more participants from a single organization is applicable. Prior registration is must by sending email to praggya@nearsurfacegeophysics.in or asiapacific@eage.org.

For more information please contact : Praggya Sharma (Ms.), Organising Secretary
at +91 9818568825, +91 9873556395, Telefax: +91-11-41318030

OR

Email : praggya@nearsurfacegeophysics.in

European Association of Geoscientists & Engineers (EAGE)
EAGE Asia Pacific Sdn Bhd, UOA Centre - Office Suite 19-15-3A, 19, Jalan Pinang, 50450, Kuala Lumpur - Malaysia
Tel: +60 327 220 140, Ext: 582, Mobile: +60 102 046 791
Email : asiapacific@eage.org, Website : www.eage.org