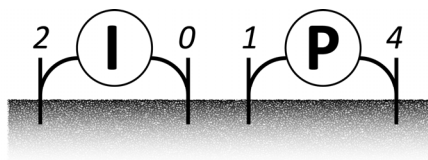




# 3<sup>rd</sup> International Workshop on Induced Polarization



6 – 9 April 2014  
Ile d'Oléron, Charente-  
Maritime, France

**final circular**

## 1/ Objectives

While originally developed for prospection and characterization of mineral deposits purposes, the recent developments of Induced Polarization (IP) geophysical methods in terms of instrumentation, processes understanding at micro-scale for low frequencies (< 1000 Hz) or macroscopic modeling and inversion processes are very promising for environmental low-polarizable targets study. Promising applications of the IP method are particularly seen in hydrogeophysics, biogeophysics or characterization of contaminated sites.

Two previous workshops had already taken place entitled 'International Workshop on Induced Polarization in Near-Surface Geophysics'. The first one held in Bonn, Germany in 2009, and the second one in Golden, Colorado, USA in 2011.

The aim of the first workshop was to present last developments and applications of the method for near surface hydrogeological and environmental investigations. The goal of the second workshop was to focus on the understanding of the mechanisms generating IP signals in the earth. These workshops had also dealt with data acquisition, petrophysical relationships, theory and laboratory studies, inverse modelling and imaging, or with

environmental, hydrological or engineering applications.

The aim of this third workshop is twofold: (i) discuss the recent developments of the method for the geophysicist community, and (ii) open the discussion with other scientific communities (e.g., medical imaging, biological) using the same physical processes even if with other names (e.g., AC impedance spectroscopy, low-frequency dielectric spectroscopy).

The particularity of this workshop is that classical scientific sessions will be completed with working groups.

### Four sessions will be organized:

- S1: IP Petrophysics
- S2: IP Methodology
- S3: IP for geophysical case studies
- S4: Other IP applications

### Four parallel Working Groups will be organized on the following topics:

- WG1: advances and prospects in IP inversion
- WG2: advances and prospects in laboratory measurements
- WG3: advances and prospects in field measurements
- WG4: good practice for TDIP and SIP

<http://ip.geosciences.mines-paristech.fr/>

## 2/ Organized by

Université Pierre-et-Marie Curie - Paris VI  
Institut Polytechnique de Bordeaux  
Mines ParisTech  
Centre National de la Recherche Scientifique

## 3/ Sponsored by

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## 4/ Organizing Committee

C. Camerlynck (UPMC)  
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A. Maineult (CNRS-UPMC)  
M. Schmutz (IPB-ENSEGID)

## 5/ Scientific Committee

N. Carlson (Zonge International Inc., USA)  
C. Doussan (INRA, France)  
N. Florsch (UPMC, France)  
A. Kemna (Univ. Bonn, Germany)  
J. Macnae (RMIT University, Australia)  
T. Martin (BGR, Berlin, Germany)  
K. Titov (St Petersburg State Univ., Russia)  
A. Weller (Tech. Univ. Clausthal, Germany)

**Contact: [IPworkshop2014@gmail.com](mailto:IPworkshop2014@gmail.com)**

## 6/ Agenda

Registration from 16:00, Sunday April 6<sup>th</sup>.

### Monday April 7<sup>th</sup>

8:30-9:00 General introduction  
9:00-11:15 S1 – IP Petrophysics  
(chairmen: N. Florsch, J. Macnae)  
11:30-12:30 Working Groups (WG):  
presentation of the topics  
14:00-15:45 S2 - IP methodology  
(chairmen: N. Carlson, A. Weller)  
15:45-16:45 Posters for S1

### Tuesday April 8<sup>th</sup>

8:30-9:30 Keynote lecture by T. Martin  
9:30-12:30 WG: discussions by groups  
14:00-16:30 Field IP demonstration  
17:00-18:00 Posters for S2

### Wednesday April 9<sup>th</sup>

8:30-10:30 S3 - IP for geophysical case studies  
(chairmen: A. Kemna, K. Titov)  
10:30-11:30 Posters for S3  
11:30-12:30 Preparation of the WG synthesis  
13:30-14:45 S4 - Other IP applications  
(chairmen: C. Doussan, T. Martin)  
14:45-15:45 Presentation of the WG synthesis  
15:45-16:00 Closure

## 7/ Venue

Closest train station (70 km): La Rochelle

**Shuttle between La Rochelle train station and conference center:**

- from La Rochelle train station to Oleron :  
departure April 6<sup>th</sup> at 19h00

- from Oleron to La Rochelle train station :  
departure April 9<sup>th</sup> at 16h30

**Train transportation:** <http://en.voyages-sncf.com/>

**Detailed information about symposium center, available at:**

<http://www.caes.cnrs.fr/vv/oleron/index.html>

