9h15-10h00  Registration and welcome coffee

*Session: subcellular systems.*

Chairwoman: Emily C. Hollenbeck

10h00-10h40  Invited speaker  Pierre Charnet
“ Voltage-gated Ca\textsuperscript{2+} channels: structure, permeation and inactivation properties”

10h45-11h25  Invited speaker  Tomaso Zambelli
“ Force-controlled electrophysiology”

11h30-11h55  Coffee break

*Session: tissues, organs, biofilms.*

Chairman: Vic Norris

12h00-12h40  Invited speaker  Dominique Chapelle
“ Multi-scale modeling of chemo-mechanical coupling in muscle contraction and applications to cardiac modeling”

12h45-14h15  Lunch

Chairwoman: Cécile Delacour

14h20-14h40  Oral conference
•  **Christian Marlière:** "A direct and at nanometer scale study of electrical charge distribution on membranes of alive cells."

14h45-15h25  Invited speaker  Derek Lovley
**Session: animals, plants.**

Chairwoman: Cécile Delacour

15h30-16h10 Invited speaker  Jean-Marie Frachisse
   “Ion channels in mechanosensing and electrical signaling in plants”

16h15-16h45 Exhibitors

16h50-17h30 Beer session and poster
   Chairman: Eric Raspaud

17h35-18h15 Invited speaker  Daniel Robert
   “The bee, the flower and the electric field”

**Thursday, Nov. 19th 2015.**

9h00-09h25 Tea-Coffee

**Session: subcellular systems.**

Chairman: Gregory Sutton

9h30-10h10 Invited speaker  Manon Guille-Collignon
   “More Transparency in BioAnalysis of Exocytosis: Coupling of Electrochemistry and Fluorescence Microscopy at ITO Electrodes”

10h15-10h35 Selected conferences
   • Michal Cifra: "Cellular electrodynamic activity"

10h44-11h10 Coffee break
Session: cells and networks.

Chairman: Renaud Cornut

11h15-11h55 Invited speaker Pascal Darbon
“Spinal cellular and network properties modulate pain perception”

12h00-12h20 Selected conferences
• Clément Lafargue: "Electro-Optic Microscopy (EOM) for cell biology"

12h25-13h55 Lunch

Session: tissues, organs, biofilms.

Chairman: Jérôme Delacotte

14h00-14h40 Invited speaker Alain Bergel
“How could chemical engineering help in deciphering electro-microbial mechanisms?”

Session: animals, plants.

14h45-15h25 Invited speaker Rüdiger Krahe
“The active electric sense of weakly electric fish: from electric organ discharge to sensory processing and behaviour.”

15h30-15h50 Selected conferences
• Thomas Boulier: "A mathematical model for electrolocation in weakly electric field"

15h55-16h25 Coffee break and posters

Chairman: Eric Raspaud

16h30-17h15 Selected conferences
• Gregory Sutton: "Bumble Bees (Bombus terrestris) use mechanosensory hairs to detect electric fields" (16h30-16h50)
• Eric Herbert: "Green Thermoelectricity: Observation and analysis of plant thermoelectric response" (16h55-17h15)