

11th Barrande-Vltava French-Czech Chemistry Meeting
28–30 August 2022, Dijon, France



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Program



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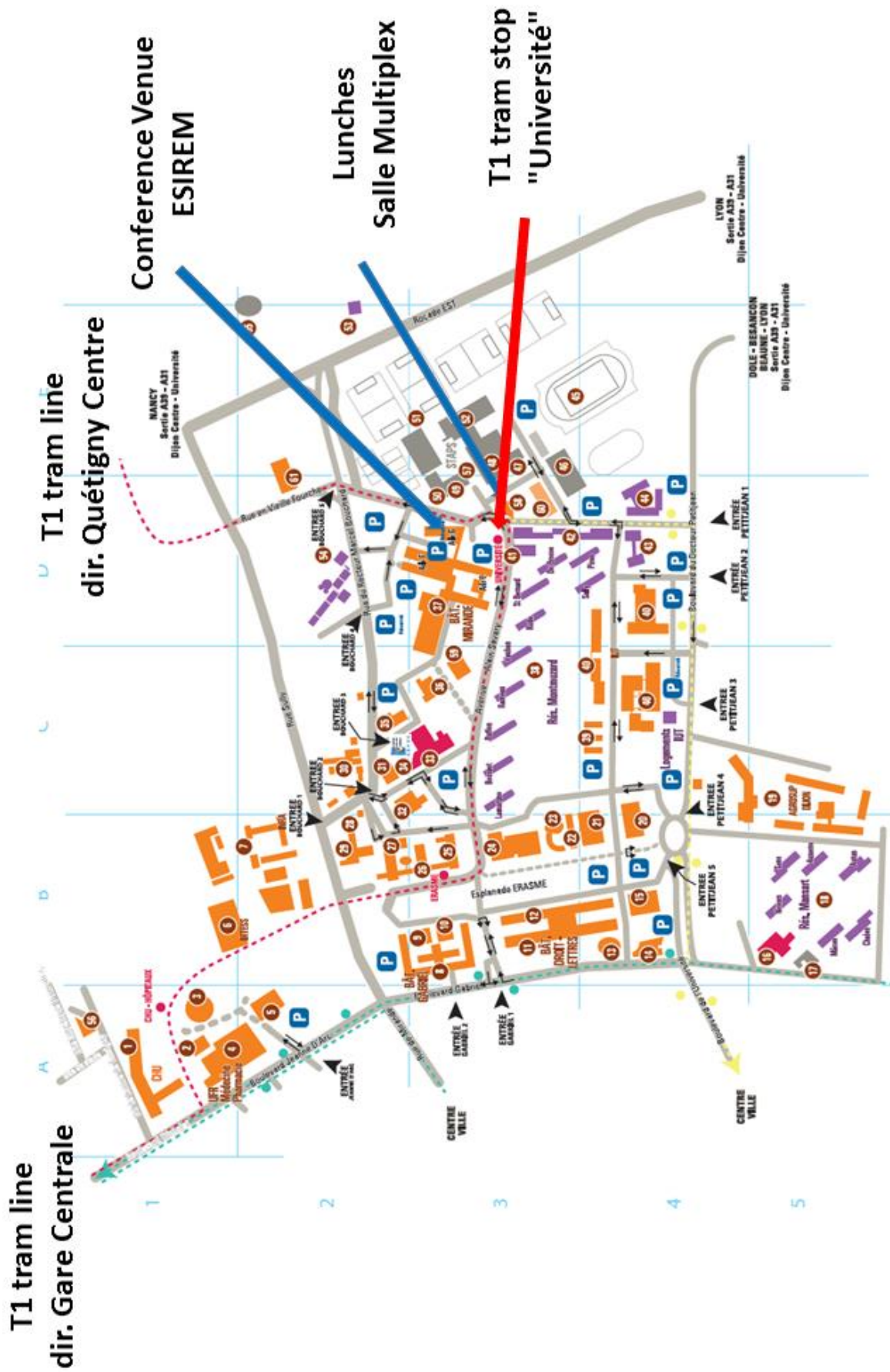
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PROGRAM

Sunday, August 28th

- 17:00-19:30 **Registration (ESIREM)**
19:30-21:45 **Welcome Reception (ESIREM)**

Monday, August 29th

- 08:15-08:30 **Registration (ESIREM)**
08:30-09:00 **Opening Ceremony (Amphithéâtre Steinbrunn - ESIREM)**

Michel Meyer, Chair of the meeting
Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon

Vincent Thomas, President of the Université de Bourgogne
Université de Bourgogne, Dijon

Véronique Debord-Lazaro, Attachée de coopération scientifique et universitaire
Embassy of France, Prague

1st Session - Chairperson: Ivo Starý

- 09:00-09:40 PL 1 **Radek Marek**
CEITEC and Masaryk University, Brno
Relativistic and paramagnetic effects in NMR spectroscopy
- 09:40-9:50 OC 1 **Jean-Claude Guillemin**
Université de Rennes and Ecole Nationale Supérieure de Chimie de Rennes, Rennes
Synthesis and millimeter wave spectroscopy of organic compounds, candidates for the interstellar medium
- 9:50-10:00 OC 2 **Paul Fleurat-Lessard**
Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon
Theoretical investigation of cooperativity in gold catalysis
- 10:00-10:10 OC 3 **Benoît Bertrand**
Institut Parisien de Chimie Moléculaire, Sorbonne Université, Paris
Organogold(III) complexes: synthesis, experimental measurement of ligand dissociation energy and applications
- 10:10-10:20 OC 4 **Jindřich Nejedlý**
Institute of Organic Chemistry and Biochemistry of the Czech Academy of Sciences, Prague
Investigation of quantum interference in [7]Helicenes via conductance measurements

- 10:20-10:50 **Coffee break (ESIREM)**

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2nd Session - Chairperson: Claude Gros

- 10:50-11:30 PL 2 **Markéta Martínková**
Department of Biochemistry, Charles University, Prague
Heme, a molecule of key processes associated with health and disease
- 11:30-11:40 OC 5 **Tereza Edlová**
Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon
Institute of Organic Chemistry and Biochemistry of the Czech Academy of Sciences, Prague
Helically chiral indenyl ligands for asymmetric catalysis
- 11:40-11:50 OC 6 **Gabriel Canard**
CINaM, Aix Marseille University, Marseille
Meso-poly-halogeno-alkyl dipyrromethanes as precursors of electron-accepting and/or functionalized porphyrinoids
- 11:50-12:00 OC 7 **W. Ryan Osterloh**
Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon
Exploring the electrochemistry and activity of cyanide towards cobalt and copper corroles
- 12:00-12:10 OC 8 **Tomáš Chlupatý**
Department of General and Inorganic, University of Pardubice, Pardubice
Biguanide(2-) complexes of main group metals
- 12:10-12:35 INV 1 **Charles H. Devillers**
Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon
Stepwise oxidative C–C coupling and/or C–N fusion of Zn(II) meso-pyridin-2-ylthio-porphyrins

12:45-13:50 **Lunch break (salle Multiplex)**

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3rd Session - Chairperson: Marcel Bouvet

- 14:00-14:40 PL 3 **Yannick Landais**
Institut des Sciences Moléculaires, Université de Bordeaux, Bordeaux
Free-radical processes towards natural products and polymer synthesis
- 14:40-14:50 OC 9 **Martin Kocúrik**
Institute of Organic Chemistry and Technology, University of Pardubice, Pardubice
Covalent molecularly imprinted polymers for selective adsorption of 1-naphthaleneacetic acid
- 14:50-15:00 OC 10 **Ileana-Alexandra Pavel**
UTINAM, Université de Bourgogne–Franche-Comté, Besançon
Sensors based on conductive polymers
- 15:00-15:10 OC 11 **Nguyêt-Thanh Ha-Duong**
ITODYS, Université Paris Cité, Paris
Helical plant virus as 3D scaffold to design nanomaterials
- 15:10-15:20 OC 12 **Serge Thorimbert**
Institut Parisien de Chimie Moléculaire, Sorbonne Université, Paris
Methyl coumalate, a promising bio-based reagent
- 15:20-15:30 OC 13 **Michal Kratochvíl**
University of Chemistry and Technology, Prague
Protected 2-hydroxyglucal: a novel building block and its use in the stereoselective synthesis of β -D-mannopyranosyl derivatives
- 15:30-15:55 INV 2 **Michal Kohout**
University of Chemistry and Technology, Prague
Synthesis and application of photosensitive liquid crystals

16:00-16:30 **Coffee break (ESIREM)**

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4th Session - Chairperson: Ewen Bodio

- 16:30-16:55 INV 3 **Pavel Štarha**
Department of Inorganic Chemistry, Palacký University, Olomouc
Anticancer activity of 5d metal complexes
- 16:55-17:05 OC 14 **Vojtěch Hamala**
Institute of Chemical Process Fundamentals of the Czech Academy of Sciences, Prague
Synthesis and cytotoxicity of fluorinated amino saccharides
- 17:05-17:15 OC 15 **Josef Hamacek**
Centre de Biophysique Moléculaire, CNRS and Université d'Orléans, Orléans
From polytopic organic ligands to synthetic polyvalent “antibodies” for cancer immunotherapy
- 17:15-17:25 OC 16 **Morgane Moinard**
Reactions and Chemical Engineering Laboratory, Université de Lorraine, Nancy
Vectorized photosensitizers to target, detect and destroy peritoneal carcinomatosis while activating the immune system
- 17:25-17:35 OC 17 **Laurène Wagner**
LCPM, Université de Lorraine, Nancy
Development of a chelating agent for diagnostic by PET imaging and targeted radionuclide therapy applications
- 17:35-17:45 OC 18 **Raluca Malacea-Kabbara**
Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon
Phosphine-phosponium gold complexes: synthesis and therapeutic investigations
- 17:45-18:25 PL 4 **Michal Hocek**
Institute of Organic Chemistry and Biochemistry of the Czech Academy of Sciences, Prague
Base-modified nucleic acids for bioanalysis and chemical biology
- 18:30-19:40 **Poster session**
- 19:40-21:45 **Buffet (ESIREM)**

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Tuesday, August 30th

5th Session - Chairperson: Josef Hamacek

- 08:30-09:10 PL 5 **Pascale Delangle**
SyMMES, Université Grenoble Alpes and CEA, Grenoble
How does bioinorganic chemistry contribute to current challenges in biology, toxicology or medicine?
- 09:10-09:35 INV 4 **Přemysl Lubal**
Masaryk University, Brno
Ln(III) complexes of teraazamacrocyclic ligands: from basic research to analytical chemosensors
- 09:35-10:00 INV 5 **Sandrine Bouquillon**
Institut de Chimie Moléculaire de Reims, Université de Reims Champagne-Ardenne, Reims
Thermodynamic properties of aqueous solutions of biosourced ionic liquids

10:00-10:30 **Coffee break (ESIREM)**

6th Session - Chairperson: Laurent Plasseraud

- 10:30-11:10 PL 6 **Petr Štěpnička**
Department of Inorganic Chemistry, Charles University, Prague
Functional ferrocene ligands
- 11:10-11:35 INV 6 **Richard A. Decréau**
Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon
Cancer theranostics activation with the Cherenkov radiation
- 11:35-12:00 INV 7 **Philippe P. Lainé**
ITODYS, Université Paris Cité, Paris
Electron storage in chemical bonds: the structronic approach
- 12:00-12:40 PL 7 **Jean-Pascal Sutter**
Laboratoire de Chimie de Coordination, CNRS, Toulouse
From magnetic anisotropy to molecular magnets: a journey into the coordination chemistry of pentagonal bipyramidal complexes

12:45-13:50 **Lunch break (salle Multiplex)**

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7th Session - Chairperson: Irena G. Stará

- 14:00-14:40 PL 8 **Pierre Le Gendre**
Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon
Phenoxy-amidines: coordination chemistry and catalysis
- 14:40-15:05 INV 8 **Jakub Svenda**
Masaryk University and International Clinical Research Center, St. Anne's Hospital, Brno
Reducing synthetic complexity of the bactobolin class of ribosome inhibitors
- 15:05-15:30 INV 9 **Miroslav Soral**
Department of Organic Chemistry, Palacký University, Olomouc
Diversity-oriented solid-phase synthesis of nitrogen heterocycles
- 15:30-16:10 PL 9 **Aleš Růžička**
Department of General and Inorganic Chemistry, University of Pardubice, Pardubice
Cationic polyhedral heteroboranes - Fact or fiction?

16:10-16:40 **Coffee break (ESIREM)**

8th Session - Chairperson: Jean-Claude Chambron

- 16:40-17:05 INV 10 **Lubomir Spanhel**
ISCR, Université de Rennes, Rennes
Fractal structure-property relationships of graphene oxide nanoparticles
- 17:05-17:45 PL 10 **Mir Wais Hosseini**
Institut Le Bel, Université de Strasbourg, Strasbourg
Perspectives in Molecular Tectonics: from molecules to crystals, mosaics of crystals and crystal welding
- 17:45-18:10 **Award and closing ceremony**

20:00-23:45 **Banquet at the Grand Hôtel La Cloche**

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- P 01** *Synthesis of aza-BODIPY/gold-based theranostics*
Océane Baffroy, Robin Lescure, Malorie Privat, Jacques Pliquett, Aurélie Massot, Benoit Busser, Pierre-Simon Bellaye, Bertrand Collin, Franck Denat, Ali Bettaïeb, Lucie Sancey, Catherine Paul, Christine Goze, Ewen Bodio
- P 02** *Antipoxvirus activity evaluation of optimized corroles based on development of autofluorescent ANCHOR myxoma virus*
Nicolas Desbois, Sandrine Kappler-Gratias, Léo Bucher, Sokunthea Top, Charlotte Quentin-Froignant, Stéphane Bertagnoli, Matthieu Louison, Emma Monge, Alain Bousquet-Melou, Marlene Lacroix, Franck Gallardo, Claude P. Gros
- P 03** *Octa-methylimidazolium zinc phthalocyanine fluorophore stains nucleolus in murine B16F10 melanoma cells and performs photodynamic therapy*
Sébastien Saou, Vivian Lioret, Anne Berrou, Christine Arnould, Richard A. Decréau
- P 04** *Synthesis of substituted 5H-pyrrolo[3,2-d]pyrimidine derivatives with antimycobacterial activity*
Martin Vrbický, Jan Bartáček, **Martin Kocúrik**, Vladimír Finger, Jaroslav Roh, Pavel Drabina
- P 05** Structural study of DOTA complexes
Jakub Obuch, Ivana Císařová, Jiří Brus, Petr Hermann
- P 06** *A multitechnique approach for unravelling the uranium(VI) solution speciation with hydroxamic acids*
Michel Meyer, Alejandra Sornosa-Ten, Shanthilal Amarasinghe, Lé-Vi Nguyen, Pawel Jewula, Mélanie Bourdillon, Tamas Fodor, Stéphane Brandès, Christine Stern, Yoann Rousselin, Jean-Claude Chambron, Vladimir Sladkov
- P 07** *Synthesis of chelating resins and development of passive DGT samplers for the environmental monitoring of uranium(VI)*
Tony Fernandes, Osian Fonquernie, Josselin Gorny, Stéphane Brandès, Charlotte Cazala, Michel Meyer
- P 08** *The new solid-contact ion-selective electrode based on dodecabenzylbambus[6]uril for perchlorate analysis*
Petra Itterheimová, Johan Bobacka, Vladimír Šindelář, **Přemysl Lubal**
- P 09** *Synthesis of covalent organic frameworks based on cobalt corrole for carbon monoxide detection*
Jian Yang, Laurie André, Nicolas Desbois, Stéphane Brandès, Claude P. Gros, Meddy Vanotti, Sacha Poisson, Virginie Blondeau-Patissier
- P 10** *Electron Spin Resonance in NMR systems*
Pawel Jewula, Lucie Kotásková, Andriy Marko, Oleksii Laguta, Petr Neugebauer
- P 11** *Cyclometallated helicenes as chiral catalysts*
Daisuke Sakamoto, **Isabel Gay Sánchez**, Jiří Rybáček, Lucie Bednářová, Radek Pohl, Ivana Císařová, Irena G. Stará, Ivo Starý

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- P 12** *Preparation of diiminoisoindole based ligands and their potential in coordination and organometallic chemistry*
Stanislava Čiefová, Petr Švec, Aleš Růžička
- P 13** *Steric tuning of bis(imino)pyridine iron and cobalt catalysts producing strictly linear polyethylene*
Mingyang Han, Wen-hua Sun, Dominique Armspach
- P 14** *Guanidinate complexes of early transition metals as effective catalysts for ethylene polymerization*
Natália Gira, Kristýna Pokorná, Vojtech Varga, Michal Horáček, Aleš Růžička
- P 15** *Use of isochinoline-oxazoline ligand in heterogenous catalysis*
Jaroslav Pochobradský, Jan Bartáček, Pavel Drabina, Miloš Sedlák
- P 16** *Inclusion complexes of [1.1.1]propellane and cucurbit[n]urils in aqueous media*
Tadeáš Herentin, Ctibor Mazal
- P 17** *Supramolecular metallodrugs: from bricks to complex systems*
Martin Sojka, **Radek Marek**
- P 18** *A self-assembled [2 + 3] chiral organic cage*
Midhun Mohan, **Pierre Mobian**
- P 19** *Design and synthesis of photosensitive ben-core liquid crystals*
Barbora Jansová, Vladimíra Novotná, Jiří Svoboda, Václav Kozmík, Michal Kohout
- P 20** *Design and synthesis of isoeugenol derivatives, as precursors for materials applications*
Marwa Ben-Abdelkader, Gilles Boni, Camille Francois, Vincent Placet, **Laurent Plasseraud**, Sylvie Pourchet, Quentin Ruiz
- P 21** *About biobased ionic liquids from choline for lignin derivatization*
Mahasoa-Salina Souvenir Zafindrajaona, Jean-Pierre Mbakidi, Magdalena Bendova, Sandrine Bouquillon
- P 22** *Strategies for the design of PEDOT-analogues: the use of chalcogen bonds*
Dominik Farka, Kristian Kriz, Cezarina Cela Mardare, David Stifter, Achim Walter Hassel, Markus Clarke Scharber, Serdar Niyazi Sariciftci, Jindrich Fanfrlik
- P 23** *Iron oxide nanoparticles functionalization for nanomedicine applications*
Léa Pageard, Chloé Gervasoni, **Pascal Soares**, Pierre-Emmanuel Doulain, Jérémy Paris, Richard Decréau
- P 24** *Nanocomposite Surface Modifications of ZnO Electrodes by Sonolysis-Derived Graphene Oxide*
Libuse Trnkova, Lubomir Spanhel, Martin Konhefr, Jaroslav Doroshenko

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Sunday 28/08/2022

17:00	19:30	Registration at ESIREM
19:30	21:45	Welcome party

Monday 29/08/2022

8:30	9:00	Opening ceremony
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9:40	9:50	OC 01 J.-C. Guillemin
9:50	10:00	OC 02 P. Fleurat-Lessard
10:00	10:10	OC 03 B. Bertrand
10:10	10:20	OC 04 J. Nejedlý
10:20	10:50	Coffee break
10:50	11:30	PL 2 M. Martínková
11:30	11:40	OC 05 T. Edlová
11:40	11:50	OC 06 G. Canard
11:50	12:00	OC 07 W. R. Osterloh
12:00	12:10	OC 08 T. Chilupaty
12:10	12:35	INV 1 C. H. Devillers

12:45	13:50	Lunch
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14:00	14:40	PL 3 Y. Landais
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15:20	15:30	OC 13 M. Kratochvíl
15:30	15:55	INV 2 M. Kohout
16:00	16:30	Coffee break
16:30	16:55	INV 3 P. Štarha
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17:05	17:15	OC 15 J. Hamacek
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17:25	17:35	OC 17 L. Wagner
17:35	17:45	OC 18 R. Malacea-Kabbara
17:45	18:25	PL 4 M. Hocek
18:30	19:40	Poster session
19:40	21:45	Buffet

Tuesday 30/08/2022

8:30	9:10	PL 5 P. Delangle
9:10	9:35	INV 4 P. Lubal
9:35	10:00	INV 5 S. Bouquillon
10:00	10:30	Coffee break
10:30	11:10	PL 6 P. Štěpnička
11:10	11:35	INV 6 R. Decréau
11:35	12:00	INV 7 P. Lainé
12:00	12:40	PL 7 J.-P. Sutter

12:45	13:50	Lunch
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14:00	14:40	PL 8 P. Le Gendre
14:40	15:05	INV 8 J. Svenda
15:05	15:30	INV 9 M. Soural
15:30	16:10	PL 9 A. Růžicka
16:10	16:40	Coffee break
16:40	17:05	INV 10 L. Spanhel
17:05	17:45	PL 10 Mir W. Hosseini
17:45	18:10	Closing ceremony

20:00	23:45	Banquet at Grand Hôtel La Cloche
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