

# The 12<sup>th</sup> International Symposium on Organic Free Radicals (ISOFR-12) (October 9 – 14, 2016, Shanghai, China)

## PROGRAM

Conference Venue & Registration:	Lecture Hall, No. 2 Building, SIOC (Address: 345 Lingling Road, Xuhui District)
Welcome Reception:	Second Floor, No. 2 Building, SIOC (Address: 345 Lingling Road, Xuhui District)
Lunch:	Dining Hall, SIOC (Address: 345 Lingling Road, Xuhui District)
Conference Dinner:	Seagull Restaurant (海鸥滨江观景餐厅) (Address: No. 60 Huangpu Road, Huangpu District)

### October 9, Sunday

09:00 – 17:30	Registration
17:30 – 19:00	Welcome Reception
19:00 – 19:10	Opening Remarks

#### Session 1

19:10 – 20:10

**Plenary Lecture (PL-1): Krzysztof Matyjaszewski**  
*New Materials via New Synthetic ATRP Procedures*

Session Chair: Chaozhong Li

## October 10, Monday

### Session 2

Session Chair: Ilhyong Ryu

- 09:00 – 10:00 **Plenary Lecture (PL-2): Armido Studer**  
*Catalysis of Radical Reactions: A Radical Chemistry Perspective - The Electron as a Catalyst*
- 10:00 – 10:30 **Invited Lecture (IL-1): Yannick Landais**  
*Free-Radical Additions to Olefins. Recent Developments and Applications*
- 10:30 – 11:00 **Coffee Break**

### Session 3

Session Chair: Mukund P. Sibi

- 11:00 – 11:30 **Invited Lecture (IL-2): Samir Z. Zard**  
*Ketones and Friends: A Radical Solution to Some Old Problems*
- 11:30 – 12:00 **Invited Lecture (IL-3): John A. Murphy**  
*Studies on Coupling Reactions Triggered by Organic Electron Donors*
- 12:00 – 12:15 **Oral Presentation (OP-1): Yong Guo**  
*Fluoroalkylation of  $\pi$ -System Materials via Free Radical Pathway*
- 12:15 – 12:30 **Oral Presentation (OP-2): Pingping Tang**  
*Total Synthesis of Schilancitrilactones B, C and Fluorine Chemistry*
- 12:30 – 14:00 **Lunch**

### Session 4

Session Chair: Cristina Nevado

- 14:00 – 14:30 **Invited Lecture (IL-4): Paolo Melchiorre**  
*Asymmetric Photo-Organocatalysis: Making Chiral Molecules with Light*
- 14:30 – 15:00 **Invited Lecture (IL-5): Xin-Yuan Liu**  
*Asymmetric Radical 1,2-Difunctionalization and Remote C-H/C Bond Cleavage of Alkenes/Alkynes*
- 15:00 – 15:30 **Invited Lecture (IL-6): Mukund P. Sibi**  
*Enantioselective Radical Functionalization of Acyl Imidazoles*
- 15:30 – 16:00 **Coffee Break**

### Session 5

Session Chair: Samir Z. Zard

- 16:00 – 16:30 **Invited Lecture (IL-7): David J. Procter**  
*Asymmetric Radical Cyclizations and Cyclization Cascades Mediated by  $SmI_2$*
- 16:30 – 17:30 **Plenary Lecture (PL-3): Philippe Renaud**  
*Formation of C-H bonds via Hydrogen Atom Transfer Involving Alcohols, Phenols and Thiols: Synthetic and Mechanistic Aspect*

## October 11, Tuesday

### Session 6

Session Chair: Burkhard Koenig

09:00 – 10:00

**Plenary Lecture (PL-4): Corey Stephenson**

*Redox Catalysis for Radical Reactions of Complex Molecules*

10:00 – 10:30

**Invited Lecture (IL-8): Wen-Jing Xiao**

*Visible Light Induced Radical Reactions in the Synthesis of Heterocyclic Compounds*

10:30 – 11:00

Coffee Break

### Session 7

Session Chair: David J. Procter

11:00 – 11:30

**Invited Lecture (IL-9): Eric Meggers**

*Asymmetric Photoredox Catalysis with Chiral Iridium and Rhodium Complexes*

11:30 – 12:00

**Invited Lecture (IL-10): Munetaka Akita**

*Generation of Organyl Radicals via Photoredox Catalysis: Regiospecific Difunctionalization of Olefins and Acetylenes*

12:00 – 12:15

**Oral Presentation (OP-3): Shouyun Yu**

*Synthetic Application via Visible Light-Promoted Nitrogen-Centered Radicals*

12:15 – 12:30

**Oral Presentation (OP-4): Da-Gang Yu**

*Radical-involved Inert Bond Functionalizations*

12:30 – 14:00

Lunch

### Session 8

Session Chair: Derek A. Pratt

14:00 – 14:30

**Invited Lecture (IL-11): Burkhard Koenig**

*Visible Light Photoredox Catalysis with Radical Anions*

14:30 – 15:00

**Invited Lecture (IL-12): Yiyun Chen**

*Visible-Light-Induced Chemoselective Reactions under Biomolecule-Compatible Conditions*

15:00 – 15:30

**Invited Lecture (IL-13): Louis Fensterbank**

*New Catalytic Pathways For Radical Chemistry And Dual Catalysis*

15:30 – 16:00

Coffee Break

### Session 9

Session Chair: Paolo Melchiorre

16:00 – 16:30

**Invited Lecture (IL-14): David A. Nicewicz**

*New Avenues in Synthesis via Organic Photoredox Catalysis*

16:30 – 17:00

**Invited Lecture (IL-15): Chuo Chen**

*Triplet Ketone-Catalyzed C–H Functionalization*

17:00 – 17:30

**Invited Lecture (IL-16): Zhong-Quan Liu**

*Free-Radical-Promoted C–C/Si Formation via Selective C–H/Si–H Functionalization*

## October 12, Wednesday

### Session 10

Session Chair: Eric Meggers

- 09:00 – 10:00 **Plenary Lecture (PL-5): John T. Groves**  
*Manganese-Catalyzed C-H Functionalization: From Hydroxylation to Fluorination and Beyond*
- 10:00 – 10:30 **Invited Lecture (IL-17): Liang Deng**  
*Iron and Cobalt Imido Complexes with NHC Ligation: Synthesis, Characterization, and Reactivity*
- 10:30 – 11:00 **Coffee Break**

### Session 11

Session Chair: Aiwen Lei

- 11:00 – 11:30 **Invited Lecture (IL-18): Jack R. Norton**  
*The Generation of Radicals by H• Transfer: Catalysis from H<sub>2</sub>*
- 11:30 – 12:00 **Invited Lecture (IL-19): X. Peter Zhang**  
*Metalloradical Catalysis for Homolytic Radical Chemistry*
- 12:00 – 12:15 **Oral Presentation (OP-5): Qiuling Song**  
*Cu-Catalyzed Radical Reaction in Organic Synthesis*
- 12:15 – 12:30 **Oral Presentation (OP-6): Chen Zhu**  
*Merging Cyano Migration Strategy in Alkene Difunctionalization: Azidocyanation of Unactivated Olefins*
- 12:30 – 14:00 **Lunch**

### Session 12

Session Chair: Louis Fensterbank

- 14:00 – 14:30 **Invited Lecture (IL-20): Ilhyong Ryu**  
*Pd/Light Induced Radical Vinylolation of Iodoalkanes*
- 14:30 – 15:00 **Invited Lecture (IL-21): Pei-Qiang Huang**  
*SmI<sub>2</sub> and Titanocene(III)-Mediated Generation and C-C Bond Forming Reactions of  $\alpha$ -Aminoalkyl Radicals from Amides and Hemiaminals*
- 15:00 – 15:30 **Invited Lecture (IL-22): Cristina Nevado**  
*Radical Mediated Alkyne and Alkene Difunctionalization Reactions*
- 15:30 – 16:00 **Coffee Break**

### Session 13

Session Chair: Qilong Shen

- 15:30 – 17:30 **Poster Session**

## October 13, Thursday

### Session 14

Session Chair: David Nicewicz

- 09:00 – 10:00 **Plenary Lecture (PL-6): Shunsuke Chiba**  
*Metal-Mediated Radical Reactions for Synthesis of Nitrogen-Heterocycles*
- 10:00 – 10:30 **Invited Lecture (IL-23): Akio Kamimura**  
*Intramolecular Direct Radical Substitution Reaction on Tin, Silicon, or Sulfur Atom*
- 10:30 – 11:00 **Coffee Break**

### Session 15

Session Chair: Glenn Sammis

- 11:00 – 11:30 **Invited Lecture (IL-24): Qian Zhang**  
*N-Fluorobenzenesulfonimide: An Efficient Radical Aminating Reagent*
- 11:30 – 12:00 **Invited Lecture (IL-25): Hai-Chao Xu**  
*Electrochemical Generation of Nitrogen-Centered Radicals for the Synthesis of N-Heterocycles*
- 12:00 – 12:15 **Oral Presentation (OP-7): Jian-Ping Zou**  
*Phosphorus-centered radical initiated difunctionalization of alkenes*
- 12:15 – 12:30 **Oral Presentation (OP-8): Xiaodong Jia**  
*What Happens When Aromatization Is Blocked?*
- 12:30 – 14:00 **Lunch**

### Session 16

Session Chair: Armido Studer

- 14:00 – 14:30 **Invited Lecture (IL-26): Robert Flowers**  
*Mechanistic Studies of Samarium and Titanium Low-Valent Reductants*
- 14:30 – 15:00 **Invited Lecture (IL-27): Chryssostomos Chatgililoglu**  
*Reconsidering relevant free radical mechanisms in biomolecule transformations*
- 15:00 – 15:30 **Invited Lecture (IL-28): Derek A. Pratt**  
*Inhibition of Lipid Peroxidation by Nitroxides and Their Precursor Amines and its Role in the Anti-Ferrototic Activities of Ferrostatins and Liproxstatins*
- 15:30 – 16:00 **Coffee Break**

### Session 17

Session Chair: Akio Kamimura

- 16:00 – 16:30 **Invited Lecture (IL-29): Hideki Yorimitsu**  
*Stable Radicals of Triply Diarylamine- or Diarylmethane-fused  $\pi$ -Extended Porphyrins*
- 16:30 – 17:00 **Invited Lecture (IL-30): Igor V. Alabugin**  
*Choreographing sequences of cyclizations and fragmentations in radical cascades*
- 17:00 – **Conference Dinner**

## October 14, Friday

### Session 18

Session Chair: Steven Bottle

- 09:00 – 09:30 **Invited Lecture (IL-31): Qilong Shen**  
*Shelf-Stable, Easily Scalable Reagent for Radical Difluoromethylthiolation*
- 09:00 – 10:00 **Invited Lecture (IL-32): Glenn Sammis**  
*Single-Electron/Pericyclic Cascades*
- 10:00 – 10:30 **Invited Lecture (IL-33): Aiwen Lei**  
*Radical C-H Activation/Radical-Radical Cross-Coupling*
- 10:30 – 11:00 **Coffee Break**

### Session 19

Session Chair: John A. Murphy

- 11:00 – 12:00 **Plenary Lecture (PL-7): Ning Jiao**  
*Highly Efficient Oxygenation Reactions with Molecular Oxygen*
- 12:00 – 12:30 **Closing Remarks**
- 12:30 – 13:30 **Lunch**