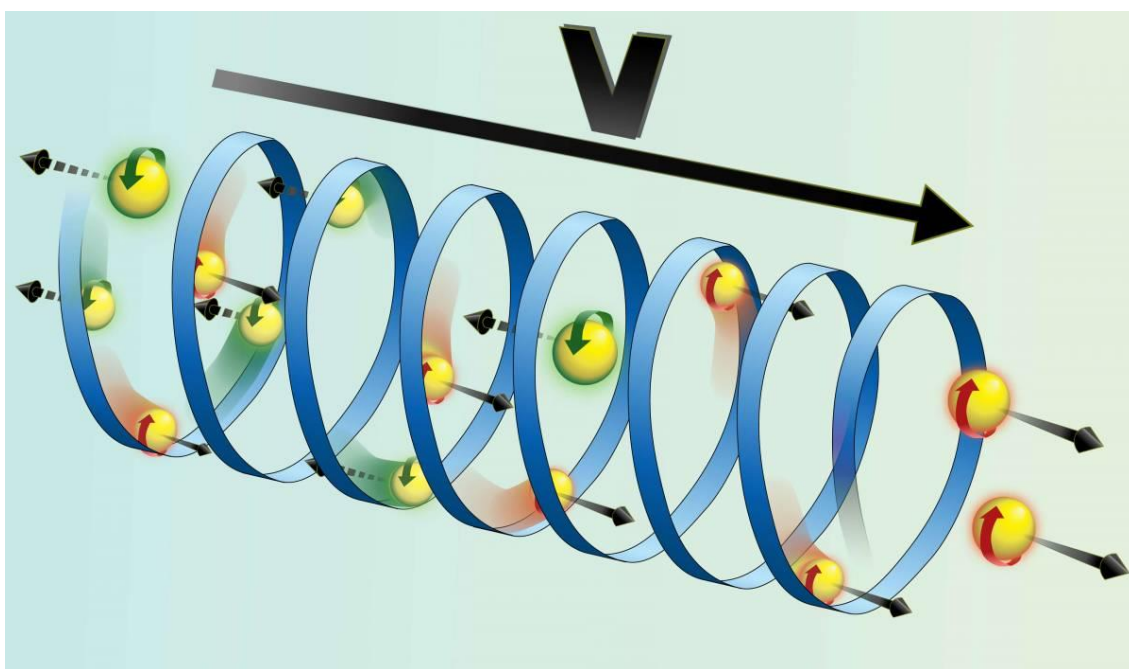


# The 80<sup>th</sup> Okazaki Conference

## Chirality-induced spin selectivity and its related phenomena

May 15<sup>th</sup> - May 18<sup>th</sup>, 2019  
Okazaki Conference Center, Okazaki, Japan

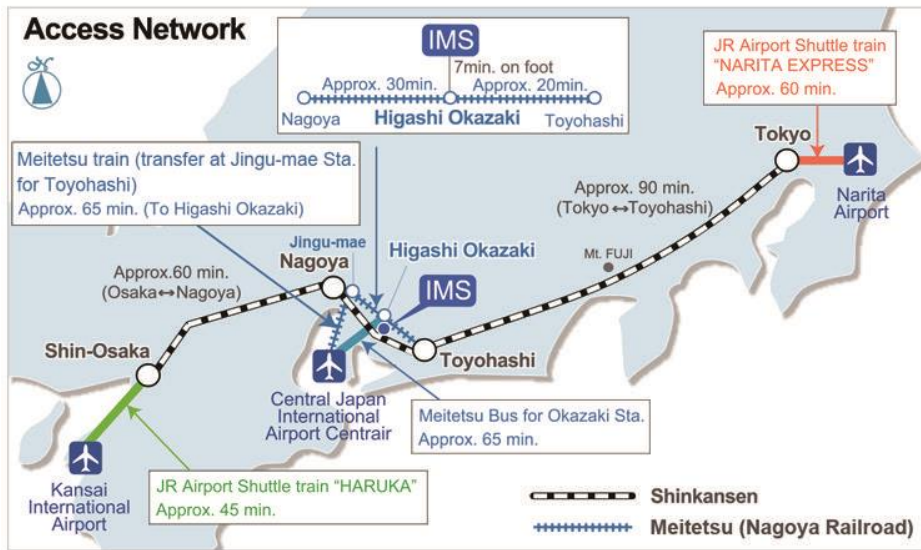


Organized by  
Institute for Molecular Science, Okazaki, Japan

Sponsored by  
Institute for Molecular Science, Okazaki, Japan  
Toyota Physical and Chemical Research Institute, Nagakute, Japan



# Access Map



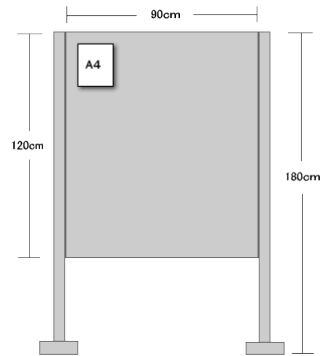
# Important Information

## 1. Invited talks

Please give your invited talk within **35 min** and allow for **5-min discussion**.

## 2. Poster presentations

For your poster number, please refer to “Poster Presentations”. Poster boards are **90 cm wide and 120 cm tall** (180 cm tall from the floor). Please put up your poster **before 18:15 on May 16<sup>th</sup>**.



## 3. Lunch

We serve lunch for all participants on May 16<sup>th</sup>-18<sup>th</sup>.

## 4. Banquet

We have a banquet at Bleu Blanc (see also Access Map) at 18:00 on May 17<sup>th</sup>.

## 5. Excursion

After lunch on May 18<sup>th</sup>, we go on an excursion to The Toyota Commemorative Museum of Industry and Technology (<http://www.tcmit.org/english/>) in Nagoya City. We have arranged a shuttle bus to get there. Have fun!

# Schedule

## 1. Conference timetable

		May 15 (Day 1)	May 16 (Day 2)	May 17 (Day 3)	May 18 (Day 4)
09:00 - 10:00	00				
	30		D. Waldeck	Y. Paltiel	C. Fontanesi
10:00 - 11:00	00		J. -P. Ansermet	S. Pramanik	Y. Iwasa
	30				J. Levy
11:00 - 12:00	00		M. Suda	S. Murakami	
	30		M. Therien	T. Itou	
12:00 - 13:00	00		Lunch	Lunch	Lunch
	30				
13:00 - 14:00	00			K. Ishii	
	30	H. Zacharias	R. Naaman	N. Avarvari	
14:00 - 15:00	00	I. D. Perez		Y. Togawa	
	30	J. Song	A. Aharony, <i>et al.</i>		
15:00 - 16:00	00	J. Crassous	V. Mujica		Excursion to "Toyota Commemorative Museum of Industry and Technology"
	30	K. H. Ernst	X. Yang		
16:00 - 17:00	00	E. Vetter	A. -M. Guo		
	30				
17:00 - 18:00	00				
	30				
18:00 - 19:00	00				
	30				
19:00 - 20:00	00		Poster session	Banquet @Bleu Blanc	
	30				
20:00 - 21:00	00				
	30				

## 2. Shuttle bus

For invited speakers, we have arranged shuttle buses between Okazaki New Grand Hotel and Okazaki Conference Center. Departure times are as follows:

	5/15 (Wed)	5/16 (Thu)	5/17 (Fri)	5/18 (Sat)
Hotel	13:00	9:00	9:00	9:00
Center	18:00	20:30	*20:00	—

\*A shuttle bus departs from Bleu Blanc, where we have a banquet.

# Program

# Invited Talks 1/2

Chair: Y. Togawa

**Day 1-1** 13:40 | Electronic spin filtering by helical molecules  
14:20 | H. Zacharias (University of Munster)

**Day 1-2** 14:20 | Spin-dependent Transport in Bioinspired Single-Molecule Junctions  
15:00 | I. D. Perez (King's College London)

**Day 1-3** 15:00 | CISS effect on DNA Nanostructures  
15:40 | J. Song (Shanghai Jiao Tong University)

Chair: H. Zacharias

**Day 1-4** 16:00 | Chiroptical and photophysical properties of multifunctional molecules based on helicenes  
16:40 | J. Crassous (Universite Rennes 1)

**Day 1-5** 16:40 | Chirality-Dependent Electron Spin Filtering by Molecular Monolayers of Helicenes  
17:20 | K. H. Ernst (Empa)

**Day 1-6** 17:20 | Chirality induced magnetoresistance in 2D chiral hybrid perovskites  
18:00 | E. Vetter (North Carolina State University)

Chair: J. Crassous

**Day 2-1** 9:30 | Adventures with Chiral Induced Spin Selectivity  
10:10 | D. Waldeck (University of Pittsburgh)

**Day 2-2** 10:10 | Spin-dependent electrochemical charge transfer probed by magnetic resonance  
10:50 | J. -P. Ansermet (Ecole Polytechnique Federale de Lausanne)

**Day 2-3** 11:10 | Light-driven Molecular Switch for Reconfigurable Spin Filters  
11:50 | M. Suda (Institute for Molecular Science)

**Day 2-4** 11:50 | Chiral, Low-Resistance, Organic and Nanoscale Frameworks that Uniquely Propagate Spin Polarized Currents  
12:30 | M. Therien (Duke University)

Chair: D. Waldeck

**Day 2-5** 13:30 | (Plenary) Polarized Spin Induced Enantio-specific Chemistry  
15:00 | R. Naaman (Weizmann Institute of Science)

Chair: R. Naaman

**Day 2-6** 15:30 | Spin current and torque in chiral molecules  
16:10 | A. Aharony, et al.

**Day 2-7** 16:10 | Chirality-Induced Spin Selectivity Effect and Spin-Dependent Chemistry  
16:50 | V. Mujica (Arizona State University)

**Day 2-8** 16:50 | Spin-Dependent Electron Transmission Model for Chiral Molecules in Solid-State Nanodevices  
17:30 | X. Yang (University of Groningen)

**Day 2-9** 17:30 | Spin-dependent electron transport along chiral and achiral molecules  
18:10 | A. -M. Guo (Central South University)



# Invited Talks 2/2

Chair: V. Mujica

Day 3-1	9:30	Spintronics and Superconducting Spintronics Based on Chiral Molecules
	10:10	
Y. Paltiel (Hebrew University)		

Day 3-2	10:10	Nanotubes and Effects on Magnetoresistance and Spin Filtering
	10:50	
S. Pramanik (University of Alberta)		

Day 3-3	11:10	Theory of Chiral Transport in Chiral Crystals
	11:50	
S. Murakami (Tokyo Institute of Technology)		

Day 3-4	11:50	Current-induced magnetization in elemental tellurium
	12:30	
T. Itou (Tokyo University of Science)		

Chair: T. Itou

Day 3-5	13:30	Electron spin polarizations and magneto-chiral dichroism of porphyrinic compounds
	14:10	
K. Ishii (University of Tokyo)		

Day 3-6	14:10	Chiral TTF and metal-dithiolene materials
	14:50	
N. Avarvari (Angers University)		

Day 3-7	14:50	Nontrivial electrical Transport Phenomena on Chiral Magnetic Materials
	15:30	
Y. Togawa (Osaka Prefecture University)		

Chair: H. Yamamoto

Day 4-1	9:30	CISS effect in chiral imprinted Ni revealed via XNCD
	10:10	
C. Fontanesi (Universita degli Studi di Modena e Reggio)		

Day 4-2	10:10	Chiral Transport in Heteropolar Nanotubes
	10:50	
Y. Iwasa (University of Tokyo)		

Day 4-3	10:50	Engineered Helicity of One-Dimensional LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Nanowires
	11:30	
J. Levy (University of Pittsburgh)		