



# SAGAMORE 2018

8 - 13 July 2018, Halifax,  
Nova Scotia (Canada)



The International Union of Crystallography's SAGAMORE XIX (2018) Conference on Quantum Crystallography will be held Sun. 8 – Fri. 13 July 2018 in Halifax, Nova Scotia, Canada.

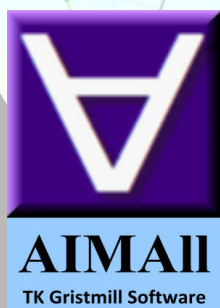
<http://www.sagamore2018.ca>

Under the auspices of the *International Union of Crystallography* and keeping with its tradition, the Sagamore triennial conference (started in 1964) will bring top scientists at the interface of crystallography, material science, quantum and computational chemistry, and solid state physics together in a unique environment that blends theory and experiment and early career and established scientists.

The conference will cover experimental and theoretical research at the interface of physics, chemistry, and biology with the electron charge and spin densities, in both position and momentum space at its center. The overarching theme is the emerging field of "*Quantum Crystallography*" – pure and applied.

The promotion of exchange of ideas and collaborations across the experiment-to-theory divide is an important aim.

Topics: See next page.



## Call for nominations:

Nominations are now opened for the following international Prizes to be Given during Sagamore 2018:

- The Inaugural Richard F. W. Bader International Prize for Excellence in Charge Density Research  
<http://www.sagamore2018.ca/r-f-w-bader-international-prize/>
- The Inaugural Miguel A. Blanco International Prize for Early Career Work in Charge Density:  
<http://www.sagamore2018.ca/m-blanco-international-prize/>







# SAGAMORE 2018

8 - 13 July 2018, Halifax,  
Nova Scotia (Canada)



- **CONFERENCE CHAIRS:** Chérif F. Matta, Paul W. Ayers.
- **IUCR COMMISSION ON QUANTUM CRYSTALLOGRAPHY:**  
**CHAIR:** Jean-Michel Gillet, **PAST CHAIR:** Piero Macchi,  
**MEMBERS:** Paulina Dominiak, Enrique Espinosa, Arsen Goukassov, Jozef Kožíšek, Eiji Nishibori, José Ricardo Sabino, Wolfgang Scherer, Tejender S. Thakur.

## Topics will range in the continuum covering:

- Experimentally-constrained wavefunctions and density matrices.
- Progress in DFT and theoretical methods for solids.
- Bader's quantum theory of atoms in molecules (QTAIM), ELF, NCI, etc.
- Laser-molecule/crystal interaction.
- Pump-probe approaches, time-resolved X-ray diffraction.
- Experimental probes for charge, spin, and momentum densities, bright sources, Auger, etc.
- Functional materials.
- Electronic properties of nanomaterials.
- Materials under extreme conditions: High pressure, strong external electric fields, intense laser fields etc.
- Quantum crystallography in the life sciences.

Halifax is tourist destination and hotels fill quickly in the summer so please register and book your hotel/flights early.

(Recommended hotels with reduced conference price, early bird registration fee, student registrations, etc. can be found at:

<http://www.sagamore2018.ca/abstract-submission/>

<http://www.sagamore2018.ca/registration/>

<http://www.sagamore2018.ca/hotels/>



## We thank our sponsors:

International Union of Crystallography (IUCr).

Mount Saint Vincent University (Canada).

McMaster University (Canada).

Destination Halifax, Inc. (Canada).

eSourceEvents.com, Inc. (Canada).

TK Gristmill Software (USA).

Computation — Open Access Journal of Computational Science

Delta Halifax and Delta Barrington.

Prince George Hotel.