Virtual LUEST 2020

**Dates**: June 1–5, 8–9

**Time**: 10:30 am – 2:30 pm (EST)

**Host**: Telluride Science Research Center (TSRC),

http://www.telluridescience.org

**Contact**: Cindy Fusting, TSRC Managing Director, cindy@telluridescience.org

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 Francesco Evangelista: francesco.evangelista@emory.edu

**Organizers**: Gustavo E. Scuseria, Peter Pulay, Dominika Zgid, Francesco A. Evangelista

Direct Zoom Link: [LUEST 2020](https://zoom.us/j/95547699627?pwd=dzlEaGw3ZjRIZXA4Um1LNTlRbjUyZz09)

### Meeting schedule (all times are Eastern Standard Time)

**Monday, June 1**

10:30 **Laura Gagliardi**

 Localized Active Space Self-Consistent Field

11:15 **Tim Berkelbach**

 Excitons in solids from periodic CC

12:00 **Break**

1:00 **Gerald Knizia**

 TBD

1:45 **Xiasong Li**

 Relativistic MRCI with Tunable Correlation Space: Lessons Learned in Heavy-Element Chemistry

**Tuesday, June 2**

11:15 **Philip Shushkov**

 Coupled cluster methods for quantum dynamics of closed and open systems at finite temperature

12:00 **Break**

1:00 **Tamar Stein**

1:45 **Benjamin Levine**

 Electronic Structure for Nonadiabatic Dynamics

**Wednesday, June 3**

10:30 **Piotr Piecuch**

 High-Accuracy Electronic Energetics by Stochastic and Deterministic Wave Function Sampling and Coupled-Cluster Computations

11:15 **Brenda Rubenstein**

 Unveiling the Finite Temperature Physics of Hydrogen Chains via Auxiliary Field Quantum Monte Carlo

12:00 **Break**

1:00 **Sandeep Sharma**

Geometry optimization and dynamical correlation in transition metal systems

**Thursday, June 4**

10:30 **Kasia Pernal**

 Dynamic correlation for multireference wavefunctions from adiabatic connection

11:15 **Carlos Jimenez-Hoyos**

 TBD

1:00 **Eugene DePrince**

 Reduced-density-matrix-based descriptions of dynamic and nondynamic electron correlation

1:45 **Alexander Sokolov**

 Recent developments in algebraic diagrammatic construction theory

**Friday, June 5**

10:30 **Ed Valeyev**

 Reduced-complexity representations for the wave operator: real space and LCAO

11:15 **Peter Pulay**

 TBD

12:00 **Break**

1:00 **Gustavo Scuseria**

Electronic structure methods for strong correlation

1:45 **Eric Neuscamman**

 New Developments in Excited-State-Specific Quantum Chemistry

**Monday, June 8**

10:30 **Takashi Tsuchimochi**

 Recovering spin symmetry in classical and quantum computers

11:15 **James D. Whitfield**

 TBD

12:00 **Break**

1:00 **Tom Henderson**

 Post-AGP Correlated Methods

1:45 **Francesco Evangelista**

 Quantum algorithms for strongly correlated electrons?

**Tuesday, June 9**

10:30 **Andreas Gruneis**

 TBD

11:15 **Dominika Zgid**

 Embedding methods for solids (NiO, SrVO3, MnO)

12:00 **Break**

1:00 **Heather Kulik**

 Diagnosing strong correlation with machine learning

1:45 **Garnet Chan**

 TBD