

FINAL REPORT, DE-SC0022551
FOR THE SUPPORT OF THE 61ST SANIBEL SYMPOSIUM, 2022
(02/02/2022– 01/31/2023)
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After a year that necessitated its cancellation, the largest, annual meeting in the field was re-convened on Feb. 13-18, 2022, at St. Simons Island, GA in the historic King and Prince Hotel. The ‘Sanibel Meeting’ emphasizes the cutting edge of new developments in the fields of quantum chemistry and many-body quantum mechanics in molecular and materials physics. This year’s meeting allowed an in-person gathering that returns to various topics dealing with quantum theory and its role in molecules, materials, computing and information. Many of those new developments was built upon themes that have been nurtured by the Sanibel voice, and presentations has been made by established experts in the field. Topics addressed in the lectures included the following: Quantum Machine Learning, Magnetic Molecules, New Directions in Coupled-Cluster Theory, Catalysis and Chemical Reactivity, Thermochemical and Spectroscopic Applications etc. 198 scientists attended.

The conference included 53 lectures presented in 11 plenary and 5 invited sessions.

Plenary and Invited sessions covered important progress in the core areas of Quantum Theory, Quantum Materials, Quantum Computing, Electronic Structure Theory, Condensed Matter, Dynamics, and Catalysis and Chemical Reactivity. In addition to poster presentations, the Sanibel format allowed for up to thirty 15-minute oral presentations, assigned on a hot-topic basis, in order to allow more opportunities for collaborative learning and discussion among Symposium attendees.

These meetings provide PostDocs and Graduate Students the opportunities to engage in interdisciplinary discussions with the outstanding keynote speakers and with their peers from other countries and areas.

All attendees are encouraged to submit papers to the Sanibel proceedings, published by Molecular Physics. Over the years, the Sanibel proceedings have enjoyed an attractive impact factor, as many of the first papers in now well-known developments appeared there, and each year there are new candidates.

We want to express our sincere gratitude for your support for the scientific, educational, and professional activities of Sanibel Symposium. The event was a success.

Your assistance enabled students, postdocs and junior scientists to participate in the Symposium. The Sanibel Symposium wouldn't be able to do this without your help.

The DOE funds were distributed as follows:

Registration fee waiver for students, postdocs, and junior scientists	\$15,000.00
Total	\$15,000.00