

Reviewed by: David Chandler (10/3)

CRF article chosen by *The Journal of Chemical Physics* to commemorate 80th anniversary

A 2012 article by CRF researchers David Chandler and the late Kevin Strecker, "Dual-etalon frequency-comb cavity ringdown spectrometer" was chosen by *The Journal of Chemical Physics* as one of 80 articles to highlight the 80 years of outstanding work published in the journal. Recently retired CRF researcher Steve Binkley is an author on a 1982 paper named among the *Journal's* 80th Anniversary Collection: "Self-consistent molecular orbital methods. XXIII. A polarization-type basis set for second-row elements."

"I am honored that this paper was selected to highlight the research that the Journal of Chemical Physics is proud of and wants to attract. I am especially happy as it honors the brilliant Kevin Strecker who died in 2012, soon after this paper was published," says David. "Kevin and I designed, demonstrated, and patented this new type of Fourier transform spectrometer that when fully developed it will be a new tool for the study of many sorts of spectroscopy and the monitoring of chemical systems."

The 80th Anniversary Collection includes seminal papers dating back to 1933 on electronic structure methods, potential energy surfaces, transition states and reaction pathways, Monte Carlo and molecular dynamics simulation methods and applications, time-dependent methods in quantum dynamics, electron transfer reactions, advances in nuclear magnetic resonance methods, and spectroscopic methods and formalisms including multidimensional techniques with applications ranging from water to proteins.

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Reviewed by: Tom Settersten, Chris Shaddix (10/4)

Two CRF Papers named Distinguished for 34th International Symposium on Combustion

Two papers by CRF researchers have been named Distinguished Papers for the 34th International Symposium on Combustion. "Synchrotron photoionization measurements of fundamental autoignition reactions: Product formation in low-temperature isobutane oxidation"

[<http://www.sciencedirect.com/science/article/pii/S1540748912002246>] by Arkke J. Eskola, Oliver Welz, John D. Savee, David L. Osborn, Craig A. Taatjes (all Combustion Research Facility) was selected as the Distinguished Paper in the Reaction Kinetics colloquium. "Large Eddy Simulation of a Lifted Ethylene Flame using a Dynamic Nonequilibrium Model for Subfilter Scalar Variance and Dissipation Rate"

[<http://www.sciencedirect.com/science/article/pii/S1540748912001873>] by Jacqueline H. Chen, Edward S. Richardson (University of Southampton, UK), Edward Knudsen (Stanford), Venkat Raman (University of Texas), and Colleen M. Kaul (University of Texas and Stanford) was selected as the Distinguished Paper in the Turbulent Flames colloquium.

These papers, along with 10 other distinguished papers from the 34th Symposium

[<http://www.combustioninstitute.org/CIResources/awards.php>], have been nominated as candidates for the Silver Combustion Medal. The winning paper will be announced August 2014 at the 35th International Symposium on Combustion in San Francisco.

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David Chandler named IAMS advisory board member

Sandia chemist David Chandler has been named to the 7th Advisory Board of the Institute of Atomic and Molecular Sciences (IAMS) [<http://www.iams.sinica.edu.tw/en/?link=background>]. Dr. Chandler's term will run from September 2013 through August 2016. Advisory Board members review research programs at IAMS and recommend scientific directions. IAMS is one of 24 research institutes of Academia Sinica, the national research institute of Taiwan.

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