

Postdoc Positions at the University of Hawai'i- Astrochemistry & Reaction Dynamics

The Reaction Dynamics Group, Department of Chemistry, University of Hawai'i at Manoa, invites applications for postdoctoral positions in the areas of i) gas phase reaction dynamics and combustion chemistry, ii) condensed phase chemistry (astrochemistry), and iii) planetary sciences (water formation on the Moon). The prime directive of the experimental gas phase studies is to investigate the formation of polycyclic aromatic hydrocarbons (PAHs) in extreme environments (combustion systems; deep space) exploiting crossed molecular beams along with mass spectrometry (QMS; ReTOF) and ion imaging (Hawaii) and a pyrolytic micro reactor (Advanced Light Source, Lawrence Berkeley Laboratory). The condensed phase (ice) studies aim to untangle the formation of complex organic molecules on interstellar nanoparticles by ionizing radiation exploiting fragment free photoionization techniques. The planetary science project seeks to elucidate the formation of water on the lunar surface. For each position, the appointment period is initially for one year, but can be renewed annually based on availability of funds and satisfactory progress. The salary is competitive and commensurate with experience. Successful applicants should have a strong background in one or more of the following: experimental reaction dynamics, molecular beams, combustion chemistry, UHV technology, pulsed laser systems, low temperature chemistry. Solid communication skills in English (written, oral), a publication record in internationally circulated, peer-reviewed journals, and willingness to work in a team are mandatory. Only self-motivated and energetic candidates are encouraged to apply.

Please send a letter of interest, three letters of recommendation, CV, and publication list to Prof. Ralf I. Kaiser, Department of Chemistry, University of Hawai'i at Manoa, Honolulu, HI 96822-2275, USA [ralfk@hawaii.edu].

The review of applications will start October 1, 2018 and continues until the positions are filled. A description of our current research group can be found at <http://www.chem.hawaii.edu/Bil301new/index.html>