

From: [NTP Website](#)
To: emailform@sp10mail.nih.gov; [iccvamquestions](#)
Subject: [NTP Web] Strategic Roadmap Input: Roadmap to Reduce Animal Testing to Evaluate Chemical Safety
Date: Tuesday, May 09, 2017 12:14:32 PM

The following has been submitted as a nomination.

Name: Geoff Daly

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Affiliation Type: Individual

Additional Contact Information: The below is not revolutionary, as the technology has matured enormously over the past 10 years and has allowed huge advances in Science. Computational results are and have been verifiable time and time again, thus, will be safer and repeatable as nature changes and so does the population!

Subject: Roadmap to Reduce Animal Testing to Evaluate Chemical Safety

Comments or questions: The extensive use of Computational CAD and Simulation within industry together with the use of electron-microscopy (see the attached atomic model of a Zeolite 5 nanometers in size, will allow each and every new chemical, pesticide or any other chemical to be reviewed down to the atomic level.

This would mean making a vast library of all known chemicals, Chemical compounds, soil structures and their inbuilt biological/microbial structures, the full human Genomic structure, known diseases (cancers, tumors, skin structure etc) around the world!

All these materials/structures are fully identifiable by their atomic build structures and DNA. They have been catalogued for more than 100 years and added to as time has past.

Computational Simulation is a known and proven technology and gets better everyday with the use of Supercomputers massive computational capabilities and able to run the "what if" scenarios

We may end up with better and less problematic products now causing emerging problems. This will take the "will of the Agency and Congress" to take this step.

Took general industry 20 years to embrace CAD then simulation and now we are into Augmented Reality CAD with Simulation. This also applies to exploring at the Atomic level the reactions of Atoms and their structures and is now used every day. 3D printing allows stronger, lighter and more reliable finished products.

Suggest you have the NIH, NIST, MIT/CalTech/Cornell/John Hopkins, Sandia Labs and others, to, speak about these technologies and their use instead of Animals.

The files sent as attachments were:

Zeolite Colored Model of AHT-77.xyz.jpg

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<http://ntp.niehs.nih.gov>