

## Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference



The **Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference** is the premier technical conference in the nation devoted to space surveillance. The cross section of military, contractor and academic participation in the field of space situational awareness is unmatched by any other conference in the world as evidenced by the continued growth in attendance and the corresponding increase in technical excellence and collaboration.

### 6- YEAR COMMITMENT TO AMOS

Applied Optimization  
Has Been a Proud  
Malama Sponsor for  
Six Years in a Row.



AO is committed to being a leader in optical and space technology. AO also supports this premier technical conference as an exhibitor.

“We support the AMOS Technical Conference as both a Malama Sponsor and as an exhibitor for a number of reasons,” says Dr. Tamara Payne, Principal Scientist at Applied Optimization.

“For one, we can interface with others in the field of telescope optics, spectral imaging and space situational awareness (SSA).”



“We strive for industry respect and our colleagues enjoy hearing what activities our **Optimization Team** has been focusing on this year.” Dr. Payne lived on Maui while serving as Senior Science Engineer at Boeing.



## Check Out Our New Website!

Applied Optimization has launched its new website. Find out more about AO and our AO team!



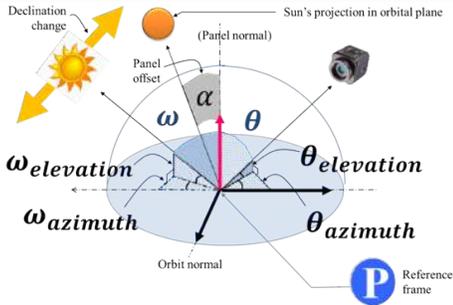
The Right  
Balance of  
Non-Conformity  
& Critical  
Thinking





## The AO Team

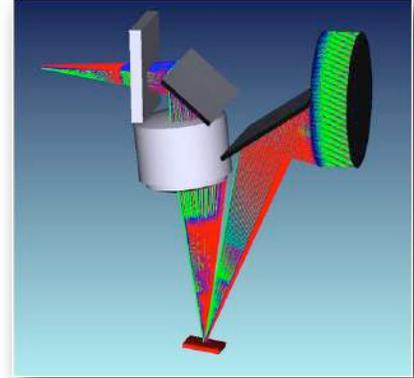
In space science, we develop algorithms for the control of optical equipment and the collection, reduction and analysis of brightness data for astronomical objects.



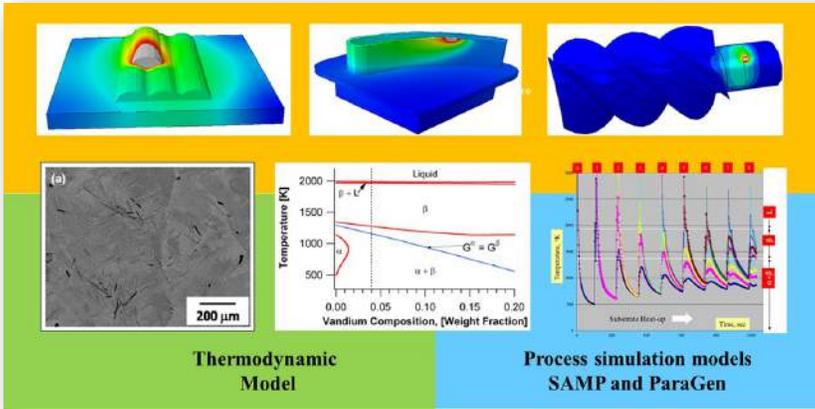
In material science, we develop algorithms for the control of materials processing equipment, and the collection, reduction and analysis of materials data for structural and engineering components.



The AO Space Team is pursuing its dreams

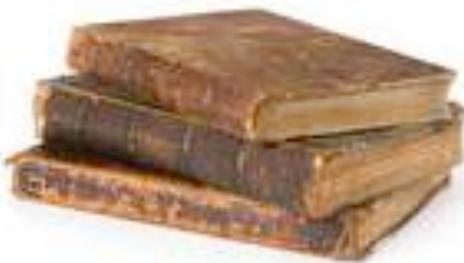


In Dayton, Ohio, we are fortunate to have top-notch universities from which to choose those young graduates who seek to build their future on the stars. Wright State University and University of Dayton have produced some of the finest graduates that have become part of the fabric at Applied Optimization. Members of our team are encouraged to pursue advanced degrees as well. We commit to creating an environment where ideas are shared with a diverse team of colleagues.



Thermodynamic Model

Process simulation models SAMP and ParaGen



## The THREE Books... my Venture Capital

Anil Chaudhary, Sc.D., Founder of Applied Optimization, Inc.

**Dr. Chaudhary, tell us a little about how Applied Optimization got started?**

"When I was in college, my favorite professor told me that you do not need to study a stack of books to be learned, but to know three books very well. I took that advice to heart

and realized that not only was it true, but these three books had become my venture capital. I wanted to use this knowledge to optimize manufacturing processes in the auto and aircraft industries. We began with an application that used classical mathematics to solve a new problem. It almost worked like magic and created faith that we could do this again and again."

**Are you just as excited about science and math as you were when you were a young student at MIT?**

"Mathematics and science are as beautiful as the trees and the oceans. A thing of beauty is joy forever. And MIT, it was only yesterday."

## Why I Work at AO

"When I hired on at AO, I told Dr. Chaudhary I wanted to pursue my masters. He told me that school comes first and he would work with me around my school schedule. He has lived up to that promise."

"Until joining AO, I thought I would only be able to pursue my love for space as an avocation. Now I not only can combine my computer engineering background with space, but I am going to secure my master's degree in aerospace engineering."