

Curriculum Vitae

Name and Contact Information

Alan V. von Arx

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Education

BS ME CSUN, 1974

MS ME CSUN, 1982 – emphasis on environmental engineering

PhD ME UCLA, 1999 – major in Heat and Mass Transfer;
minors in Nuclear Engineering and Fluid Mechanics

Dissertation: System Simulation of A MultiCell Thermionic Space
Power Reactor

Employment History

Academic Experience:

1977-1980: adjunct instructor CSU Northridge (CSUN)

2005-present: CSU Northridge (CSUN) part-time faculty, Mechanical Engineering
(teaching undergrad classes such as Thermodynamics, Heat Transfer and
Applied Numerical Methods)

Non-Academic Experience:

1974 – 2009: Rocketdyne, United Technologies Corporation – Retired

(Boeing & Rockwell International were former corporation names)

- full time work in the field of heat transfer and fluid mechanics;
- terrestrial and space power systems; nuclear, solar, and coal
- led the thermal analysis team for the Photovoltaic Thermal Control System on the International Space Station
- performed the thermal analysis of the Radioisotope Thermoelectric Generator for JPL's Mars Science Lab
- performance analyses for the 560 MW_t molten salt central receiver solar power plant in Tonopah, NV
- 2 years as manager of the Aerothermodynamics process team

Professional Registrations

CA Registered Professional Engineer ME 17858 (1977)

Rocketdyne Community Outreach – Science in the classroom (numerous visits to my wife's elementary school with demonstrations to generate enthusiasm for math and science)

Service activities

Boy Scouts of America

Publications and presentations from the past seven years

3 patent awards:

- Solar Desalinization Plant – 8/21/2012
- Supercritical CO₂ Turbine for Use in Solar Power Plants – 2/4/2010
- Lightweight Protector Against Micrometeoroids and Orbital Debris (MMOD) Impact Using Foam Substances – 12/16/2008