

RESUME

PERSONAL:

Name: Alejo Sánchez Alías
Place and date of birth: Spain. April 11, 1951
Citizenship: Spanish/Venezuelan (Naturalized 1978)
Languages: Fluent in both spoken and written English (near-native) and Spanish (native).
Address: Currently living in Centerville, Iowa, USA.
Personal hobbies: Sailing, Photography, Chess and Cartooning.
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EDUCATION:

Ph.D.	Mechanical Engineering	The University of Iowa	1991
M.Sc	Mechanical Engineering	The University of Iowa	1983
Engineering	Mechanical Engineer	Universidad de los Andes, (Venezuela)	1977

TEACHING POSITIONS:

Taught at every level of academic positions, from **Teaching Assistant** to **Full Professor**. Classes taught, at both undergraduate and graduate levels, focused on the Thermal Sciences and Numerical Methods areas. **Retired Professor** since 2002.

OTHER ORGANIZATIONAL/ADMINISTRATIVE POSITIONS:

From 2003 to 2012: Vice President of the Iowa Institute S.R.L. (Language Academy, now closed, for the teaching of English and Spanish as Second Languages). Mérida, Venezuela.

From 2002 to 2003: Coordinator in Europe of Mechanical Inspections. In representation of “Unidad de Asesoría de Proyectos de Innovación Tecnológica (UAPIT)”.

From 1974 to 2003 held many positions inside the academic world (in particular, in the College of Engineering, Universidad de Los Andes). Of special relevance are:

- Chairman of the Graduate Programs Division (with more than 15 graduate programs).
- Coordinator of the Doctorate program in Applied Mathematics.
- Director of the Computational Thermal Sciences Section. National Center for Scientific Calculations (CECALCULA)

- Chairman, Department of Thermal Sciences. Mechanical Engineering School.

RESEARCH INTERESTS:

Main research interests are related to the use of numerical methods for the solution of all type of **Heat Transfer** problems. Particular emphasis is given to the application of the **Discrete Ordinates Method** in the solution of **Radiative Heat Transfer** situations ranging from transparent media to atmospheric-scale implementations.

HONORS/AWARDS/RECOGNITIONS:

Member of organizing and scientific committees for different Congresses and Conferences; Invited speaker in several events. Received public recognition for contributions in both education and research.

EXPERIENCE AS REVIEWER/REFEREE FOR:

Among others:

- Journal of Heat Transfer.
- Journal of Thermophysics and Heat Transfer.
- Venezuelan National Council for Scientific and Technological research (CONICIT).

INVITED LECTURES/ PRESENTATIONS IN CONFERENCES:

Several oral presentations in various events and conferences in Venezuela, Spain, USA, Turkey, Korea, Canada, and Argentina.

PUBLICATIONS: (See full list of [Publications](#) or [Citations](#))

More than 40 publications in Journals, Congresses and Conferences. Of particular relevance:

What is considered¹ the *First application of the Discrete Ordinates Method for the calculation of view factors in Transparent media*:

- Sánchez, A. and Smith, T. F., 1992, "Surface Radiation Exchange for Two-Dimensional Rectangular Enclosures Using the Discrete-Ordinates Method," J Heat Transfer., Vol. 114, pp. 465–472.

What is considered² the *First 3D-scalar RT code using discrete ordinates in Atmospheric-scale applications*.

- Sánchez, A., Smith, T. F., and Krajewski, W., 1994, "Three-Dimensional Atmospheric Radiation Model Based on the Discrete-Ordinates Method," Journal of Atmospheric Research, Vol.33, pp. 283-308.

1 Rebollo, Daniel de Jesús; et al, Aplicación del método de los volúmenes finitos al cálculo de los factores de vista en cavidades bidimensionales. *Mecánica Computacional* Vol XXXI, págs. 2075-2092 (artículo completo). Asociación Argentina de Mecánica Computacional, 2012.

2 Kattawar, George W., 3D Time Dependent Stokes Vector Radiative Transfer in an Atmosphere-Ocean System Including a Stochastic Interface. Ft. Belvoir : Defense Technical Information Center, 2008.