

## **Curriculum Vitae**

**Eugene F. Adiutori**  
**12887 Valewood Dr.**  
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### **Personal**

Born 10/31/32 in Erie, PA

Married to Donna Elaine Mahood

Six children

### **Education**

B. E. Chem. Eng., Yale University, 1954

M. S. Mech. Eng., Union College, 1961

### **Experience**

Nuclear engineering: 10 years with General Electric, Knolls Atomic Power Lab, Schenectady, NY

Nuclear and fossil fuel power plant engineering: 7 years, consultant to Diamond Power, subsidiary of Babcock and Wilcox, Lancaster, OH

Gas turbine engineering: 25 years, primarily with General Electric, Evendale, OH

### **List of Patents**

Attached.

### **List of Publications and presentations**

Attached

## Publications and presentations by Eugene F. Adiutori

*The New Heat Transfer*, Ventuno Press, 1974

*The New Heat Transfer* (Russian edition), Mir (Moscow), 1977

*The New Heat Transfer*, 2<sup>nd</sup> ed., Ventuno Press, 1989

“A Critical Examination of the View that Nucleate Boiling Heat-Transfer Data Exhibit Power Law Behavior”, Japan Society of Mechanical Engineers International Journal, Fluids and Thermal Engineering, Vol 37, No. 2, p. 394, May, 1994,

“Thermal Check: A Simple and Accurate Bench Test for Measuring the As-built Heat Transfer Performance of Cooling (or Heating) Circuits in Gas Turbine Components”, ASME HTD-Vol. 226, p. 17, (1992)

“A New View of Dimensional Homogeneity, and Its Impact on the Fundamental Equations and Parameters of Heat Transfer Science”, ASME HTD-Vol. 204, p1 (1992)

“The Derivation and Application of Criteria for the Thermal Stability of Heat Transfer Media”, ASME HTD-Vol. 204, p 89 (1992)

“A New and Simple Concept to Replace Film Effectiveness”, ASME 91-GT-394, presented at 1991 International Gas Turbine Congress, Orlando

“Thermal Behavior in the Transition Region Between Nucleate and Film Boiling”, ASME/JSME Thermal Engineering Proceedings, Volume 2, p 51—ASME 1991

“Origins of the Heat Transfer Coefficient”, *Mechanical Engineering*, August, 1990

“A New Look at the Origin of the Heat Transfer Coefficient Concept”, ASME 89-HT-3—presented at 1989 ASME/AIChE Conference

“What’s Wrong with  $h$ ?”, presented at 8<sup>th</sup> International Heat Transfer Conference, San Francisco, 1986

“A New and Simple Concept for the Analysis of Nonlinear Heat Transfer Phenomena Such as Boiling”, *British Chemical Engineering*, December, 1965

“New Theory of Thermal Stability in Boiling Systems”, *Nucleonics*, May, 1964

## Patents by Eugene F. Adiutori

- 5,353,865 Enhanced impingement cooled components
- 5,269,468 Fuel nozzle
- 4,978,230 Apparatus and method for determining heat transfer coefficient based on testing actual hardware rather than simplistic scale models
- 4,916,715 Method and apparatus for measuring the distribution of heat flux and heat transfer coefficients on the surface of a cooled component used in a high temperature environment
- 4,902,139 Apparatus and method for measuring the thermal performance of a heated or cooled component
- 3,827,102 Soot blower with gas temperature heat flow detecting means
- 3,542,486 Film cooling of structural members in gas turbine engines
- 3,388,888 Cooled turbine nozzle for high temperature turbine