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Angel Madrid, Ph.D. in Nuclear Engineering, University of California, Los Angeles, U.S.A.

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Education

Sep 2015 - Oct 2015 edX, BerkeleyX, University of California, Berkeley, Berkeley, U.S.A.

Certificate, ColWri2.1x Course: How to Write an Essay

Berkeley, California, United States

Mar 2013 - Aug 2013 edX, HarvardX, Harvard University, Cambridge, Massachusetts, U.S.A.

Certificate, ER22x Course: Justice Cambridge, Massachusetts, United States

Jan 2013 - Jun 2013 edX, HarvardX, Harvard University, Cambridge, Massachusetts, U.S.A.

Certificate, HLS1x Course: Copyright Cambridge, Massachusetts, United States

Jan 1994 – Jan 1994 Ministerio de Educación y Ciencia (Ministry of Education and Science), Madrid,

Spain

Doctor Ingeniero Indusrial (Ph.D.), Degree Conferred in January, 1994, Ingeniería Industrial (Plan 1957), Sección Técnicas Energéticas (Energy Systems Engineering Principles, Analysis and Design),

Madrid, Spain

Jul 1979 - Dec 1980 University of California, Los Angeles, California, U.S.A.

Ph.D., Nuclear Engineering, Degree Conferred in December, 1980,

Los Angeles, California, United States

Oct 1978 - Jun 1979 University of California, Los Angeles, California, U.S.A.

Student Leave of Absence.

Los Angeles, California, United States

Sep 1974 - Sep 1978 University of California, Los Angeles, California, U.S.A.

Ph.D. Dissertation, Nuclear Engineering: Research Work and Major Field/Qualifying

Examinations,

Los Angeles, California, United States

Sep 1973 - Aug 1974 University of California, Los Angeles, California, U.S.A.

Student Leave of Absence.

Los Angeles, California, United States

Sep 1972 - Aug 1973 University of California, Los Angeles, California, U.S.A.

Nuclear Engineering: Minor Field in Thermodynamics,

Los Angeles, California, United States

Jan 1969 - Aug 1972 University of California, Berkeley, California, U.S.A.

M.S., Nuclear Engineering: Minor Fields in Nuclear Reactor Kinetics and Design, and

Materials Science, Degree Conferred in June, 1978,

Berkeley, California, United States

Oct 1961 – Jun 1966 Universidad Politécnica de Madrid (Polytechnic University of Madrid), Escuela Técnica Superior de Ingenieros Industriales

Ingeniero Industrial (B.Sc. and M.S.), Degree Conferred in June, 1972, Ingeniería Industrial (Plan 1957), Sección Técnicas Energéticas (Energy Systems Engineering

Principles, Analysis and Design),

Madrid, Spain

Thesis

Angel Madrid: An Intermediate Model on Intragranular Fission Gas Behavior During Steady State Irradiation of LMFBR Uranium Carbide Nuclear Fuel. 12/1980, Degree: Ph.D. in Nuclear Engineering, University of California, Los Angeles, California, U.S.A., Supervisor: Prof. David Okrent and Prof. Ahmed R. Wazzan, Committee Co-Chairmen

Angel Madrid: Design Analysis of a Sea Water Desalination Plant Recovering the Exhaust Gases Thermal Energy from a Gas Turbine. 09/1971, Degree: B.Sc. and M.S. in Energy Systems Engineering Principles, Analysis and Design (Ingeniería Industrial - Plan 1957, Sección Técnicas Energéticas), Universidad Politécnica de Madrid, Escuela Técnica Superior de Ingenieros Industriales (E.T.S.II.), Madrid, Spain., Supervisor: Mr. John B. Kelley, BURNS & ROE Engineers (Spain), Vice President and appointed E.T.S.II. Faculty Members.

Research Experience

Statistics

RG Score 19.21

Publications 41

Reads 3,844

Citations 8

Awards & Grants

Jun 1991	Grant: Feasibility Assessment of Using IR Thermography in Stone Conservation
Mar 1989	Grant: Segundo Encuentro de Científicos Españoles Residentes en el Extranjero (Second Meeting of Spanish Scientists Residing Abroad), Madrid, Spain
Sep 1983	Grant: Development of Nuclear Safety Computer Programmes
Sep 1982	Grant: Development of Accident Sequences in Fusion Reactors
Jul 1979	Grant: Academic Apprentice Research Program

Nov 1975 Award: American Nuclear Society (ANS) Student Paper Presentation Prize, ANS

National Winter Meeting

Oct 1974 Grant: Academic Apprentice Research Program

Jul 1973 Grant: Transient Analysis of LMFBR Oxide Fuel Elements During Accidents

Sep 1971 Grant: Del Amo Foundation Fellowship

Sep 1969 Grant: Formación de Profesorado de Enseñanza Técnica Superior en Materias Tecnológicas (Higher Technical School Academic Apprenticeship Program)

Mar 1966 Grant: Practical Training in Engineering

Aug 1965 Grant: Practical Training in Engineering

Feb 1965 Grant: Bourse de Stage de Coopération Technique (Technical Cooperation Sojourn Grant)

Skills & Activities

Skills

Probabilistic Risk Analysis, Thermal Imaging, Thermal Physics, Applied Thermodynamics, Infrared Thermography, Applied Mathematics, Heat Transfer, Tokamak Impurity Control Safety Analysis, Nuclear Reactor Safety Analysis, Nuclear Fuel-Element Fission-Gas Behavior Modeling, Nuclear Fuel-Element Behavior and Safety Analysis, Reliability and Safety Analysis, Nuclear Power Plant Design and Safety Analysis, Nuclear Power Plant Radioactive Waste Disposal, Nuclear Radiation Shielding, Thermal Engineering, Localized Isometric Muscle Strength Testing, Whole-Body Static Muscular Strength Testing, Musculoskeletal Dysfunction Quantification. Occupational Biomechanics, English/French/Spanish Technical Translations. English/Spanish Literary Translations, Electrical Power Engineering, Nuclear Engineering, History of Science, Human-Computer Interaction, History of Western Music, Musical Acoustics, Materials Science, Acoustics, Academic Writing, Thermography, Applied Physics, Energy Economics, History of Ideas, Electrical Engineering, Tokamak, Risk Assessment, Renewable Energy and Environment Protection, Science, Technology & Society Studies (STS), Energy Engineering, Concepts, Energy Efficiency, Renewable Energy, Safety Engineering, Analysis, IR. Renewable Energy Technologies, Mathematical Analysis, Energy, Biophysics, Thermodynamics, Applied Statistics, Biomedical Engineering, Statistics, Corrosion, Science 2.0 and Open Access, Classical Music, Music History, Music Education, Ethnic Music, Non-Equilibrium Thermodynamics, Distillation Plant, Biomechanics, Spinal Biomechanics, Cultural Heritage, Ankle Biomechanics, Statistical Thermodynamics, Distillation, Injury Biomechanics, Biomedical Ethics, Biomedical Imaging, Engineering Thermodynamics, Nuclear proliferation, Nuclear Fusion, Biomedical Science, Nuclear Fission, Thermoelectricity, Desalination, Nuclear Safety, Protection Of Cultural Heritage, Biomedical Statistics, Reliability, Singing, Copyright, Spanish Literature, Educational Theatre, Theater Directing, Diffusion Studies, Heat Conduction, Higher Education Teaching, Mathematics Teaching, Science Teaching, Remedial Teaching, Language Teaching, Wikipedia

Languages

English, French, Italian, Portuguese, Spanish

Scientific Memberships

American Nuclear Society (ANS), Los Angeles Section, ANS Student Chapter, 1975

Sociedad Ibérica de Termología, (Iberian Society of Thermology), Founding Member,

1988

Sociedad Española de Medicina Pericial (S.E.M.P.), (Spanish Society of Legal Medicine

Experts), Founding Member, 1996

Interests

English/Spanish/English Translations

French/English/Spanish Translations

History of Science

History of Western Civilization

World Art History

History of Western Music

Music Theory

Ethnic Music

Musical Performance

Musical Acoustics

History of Western Theater

Theatrical/Operatic Performances

Worldwide Literature

Copyright Law

Civil Law

Labor Law

Commercial Law

Company Law

Administrative Law

Criminal Law

Constitutional Law

Ethics

Publication Highlights

- A. Madrid: Quantitative evaluation of aging in bearings and electric brushes using infrared thermography. 1992 Quantitative InfraRed Thermography, Châtenay-Malabry, France; 07/1992, DOI:10.21611/qirt.1992.025
- Angel Madrid: Quantitative evaluation of cavities and inclusions in solids using IR thermography. Proceedings of SPIE The International Society for Optical Engineering 04/1991; 1467:322-336., DOI:10.1117/12.46460
- Angel Madrid: Using IR thermography for detecting and diagnosing cracking in concrete dams. Proceedings of SPIE The International Society for Optical Engineering 07/1990; 1341:110-126., DOI:10.1117/12.23085
- Angel Madrid, G. Apostolakis, R.W. Conn: On the Development of Accident Sequences Involving Tokamak Impurity Control Systems. Nuclear Technology/Fusion 09/1983; 4(2):1135-1140., DOI:10.13182/FST83-A23011
- Angel Madrid: Using IR thermography for quantifying failure rates of electric power network components. Proceedings of SPIE The International Society for Optical Engineering 07/1990; 1341:24-45., DOI:10.1117/12.23077

Books

Book Chapters

Journal Publications

- Angel Madrid: Quantitative evaluation of cavities and inclusions in solids using IR thermography. Proceedings of SPIE The International Society for Optical Engineering 04/1991; 1467:322-336., DOI:10.1117/12.46460
- Angel Madrid: Using IR thermography for detecting and diagnosing cracking in concrete dams. Proceedings of SPIE The International Society for Optical Engineering 07/1990; 1341:110-126., DOI:10.1117/12.23085
- Angel Madrid: Using IR thermography for quantifying failure rates of electric power network components. Proceedings of SPIE - The International Society for Optical Engineering 07/1990; 1341:24-45., DOI:10.1117/12.23077
- Angel Madrid: On the estimation of hardware failure rates using IR thermography. Proceedings of SPIE The International Society for Optical Engineering 04/1990; 1313:30-46., DOI:10.1117/12.21906
- Angel Madrid: Infrared Thermography as an Aid in Quantitative Reliability and Risk Analyses. Proceedings of SPIE
 The International Society for Optical Engineering 06/1988; 918:40-60.
- Angel Madrid, G. Apostolakis, R.W. Conn: On the Development of Accident Sequences Involving Tokamak Impurity Control Systems. Nuclear Technology/Fusion 09/1983; 4(2):1135-1140., DOI:10.13182/FST83-A23011
- Angel Madrid, D. Okrent, A.R. Wazzan: MUSIC: Intragrannular fission gas behavior model for LMFBR UC Fuel. Transactions of the American Nuclear Society 11/1981; 39:416-417.
- Angel Madrid, D. Okrent, A.R. Wazzan: A Simplified Model for Fission Gas Behavior in Uranium Carbide Fuel. Transactions of the American Nuclear Society 11/1975; 22:234-235.
- Angel Madrid, Y. Sun, J.O. Cermak, D. Okrent: On the Failure Modes of Irradiated LMFBR Fuel Pins during Transients. Transactions of the American Nuclear Society 06/1974; 18:203-204.

Patents

Conference Proceedings

- Angel Madrid: Quantitative Evaluation of Aging in Piping Using IR Thermography. 8th International Conference on Thermal Engineering and Thermogrammetry, Budapest, Hungary; 06/1993
- Angel Madrid, Richard Coffman, William Ginell: Doping Detection and Characterization in Thermal Insulators Using IR Thermography. 8th International Conference on Thermal Engineering and Thermogrammetry, Budapest, Hungary; 06/1993
- Angel Madrid, Richard Coffman, William Ginell: Air Void Detection and Characterization in Thermal Insulators Using IR Thermography. 8th International Conference on Thermal Engineering and Thermogrammetry, Budapest, Hungary; 06/1993
- A. Madrid: Quantitative evaluation of aging in bearings and electric brushes using infrared thermography. 1992 Quantitative InfraRed Thermography, Châtenay-Malabry, France; 07/1992, DOI:10.21611/qirt.1992.025

- Angel Madrid: Evaluation of Aging in Cracked/Voided Piping Using IR Thermography. 1992 ASNT (American Society for Nondestructive Testing) Spring Conference, "NDE The Vehicle to the Future", Orlando, Florida, U.S.A.; 04/1992
- Angel Madrid, José L. Madrid: Feasibility of Using Active IR Thermography in Pain-Related Clinical Evaluation. First European Conference on Pain Research, EuroPain, Brussels, Belgium; 12/1991
- Angel Madrid: Evaluation of Aging in Piping Using IR Thermography. 1991 ASNT (American Society for Nondestructive Testing) Fall Conference, "50 Years of Improved Safety and Reliability through NDT", Boston, Massachusetts, U.S.A.; 09/1991
- Angel Madrid: On the Diagnosis of Aging Failures Using Infrared Thermography. Proceedings of the International Conference on Probabilistic Safety Assessment and Management (PSAM-1991), Beverly Hills, California, U.S.A.; 02/1991
- Angel Madrid: Infrared Thermography As An Aid In Quantitative Reliability And Risk Analyses. Applications of Infrared Technology, London, England; 06/1988, DOI:10.1117/12.945601
- Angel Madrid, Sergio Guarro: Current Issues and Trends on the Use of Simulation in Nuclear Power Plant Disturbance Analysis Systems. International Conference on Power Plant Simulation, Cuernavaca, Morelos, Mexico; 11/1984
- Angel Madrid, G. Apostolakis: On the development of accident sequences involving tokamak impurity control systems. 5th Topical Meeting on Technology of Fusion Energy, Knoxville, TN, U.S.A; 04/1983

Technical Reports

- Angel Madrid: Feasibility Assessment of Using Infrared Thermography in Stone Conservation. Affiliation: The J. Paul Getty Trust
- William E. Kastenberg, Edmund Rumble, Angel Madrid, et al: Transient Analysis of LMFBR Oxide Fuel Elements During Accidents. Report number: UCLA-ENG-7468, Affiliation: University of California, Los Angeles
- James N. Landis, Angel Madrid: *Testimony of Applicant's Witness, James N. Landis*. Report number: Administrative Proceeding File No 3-1476, "In the Matter of American Electric Power Company Inc.", Affiliation: U.S. Securities and Exchange Commission
- James N. Landis, Angel Madrid: Exhibits Offered in the Course of Testimony by James N. Landis. Report number: Administrative Proceeding File N° 3-1476, "In the Matter of American Electric Power Company Inc.", Affiliation: U.S. Securities and Exchange Commission
- J. Ruzek, Angel Madrid, et al: Modesto Irrigation District. Power Supply Study 1972-1990. Report #7509. Bechtel Corporation, San Francisco, California, U.S.A..