

Lance E. Rewerts

PhD

Senior Consultant



Dr. Rewerts is a Senior Consultant at Engineering Systems Inc. (ESI). He has over 25 years of experience in computer-generated 2D and 3D animations and other graphics for scientific illustration. He has created hundreds of compelling and educational graphics, tutorials, and animations covering a broad range of technical areas.

Prior to joining ESI, Dr. Rewerts served as a Senior Project Manager at Demonstratives, Inc. for over 10 years. During that time, he worked on projects ranging from intellectual property disputes to product liability cases.

His work frequently involves the development, processing, and analysis of video, including applications of photogrammetry and videogrammetry in forensic and litigation contexts. He has extensive experience with transportation-related visualizations, including ground vehicles, trucking, aviation, and rail. He also has substantial experience in intellectual property and product-related disputes, encompassing technologies ranging from agricultural equipment and industrial machinery to medical devices, pharmaceuticals, telephony, and internet-based technologies.

Positions Held

Engineering Systems Inc., Ames, Iowa

- Senior Consultant, 2014 – Present

Demonstratives, Inc., Ames, Iowa

- Senior Project Manager, 2001–2014

Engineering Animation, Inc., Ames, Iowa

- Project Manager, 1998–2000

Iowa State University, Ames, Iowa

- Temporary Assistant Professor, Departments of Mechanical and Aerospace Engineering, 1998

Center for Non-Destructive Evaluation, Ames, Iowa

- Postdoctoral Research Assistant, 1995–1997

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ESi Ames

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Areas of Specialization

- 3D Animations
- Demonstrative Aids & Exhibits
- Flash & PowerPoint Presentations
- Litigation Graphics

Education

PhD, Mechanical Engineering.

Iowa State University. 1994

MS, Mechanical Engineering.

Iowa State University. 1991

BS, Mechanical Engineering.

Iowa State University. 1989

Publications

"The Effect of Noncondensables on the Condensation of R-123 on Enhanced Tube Geometries," **L.E. Rewerts**, J.B. Huber, and M.B. Pate, ASHRAE Transactions, Vol. 103, Part 1, 1997.

"The Role of Propagation Characteristics in Acoustic Emission Pipeline Leak Location," **L.E. Rewerts**, R. Roberts, and M.A. Clark, Review of Progress in Quantitative Non-Destructive Evaluation, Vol. 17, Part A, 1997.

"Dispersion Compensation in Acoustic Emission Pipeline Leak Location," **L.E. Rewerts**, R. Roberts, and M.A. Clark, Review of Progress in Quantitative Non-Destructive Evaluation, Vol. 16, Part A, 1996.

"Experimental Studies on the Role of Backfill and Pipeline Characteristics in the Application of Acoustic Leak Location to Underground Pipelines," **L.E. Rewerts**, M.A. Clark, and R. Roberts, Review of Progress in Quantitative Non-Destructive Evaluation, Vol. 16, Part A, 1996.

"New Work in Acoustic Leak Location in Underground Pipelines," **L.E. Rewerts**, M.A. Clark, and R. Roberts, Review of Progress in Quantitative Non-Destructive Evaluation, Vol. 15, Part B, 1996.

"The Effect of Liquid Inundation and Vapor Shear on the Condensation of R-123 on Enhanced Tube Geometries," **L.E. Rewerts**, J.B. Huber, and M.B. Pate, ASHRAE Transactions, Vol. 102, Part 2, 1996.

"The Effect of Liquid Inundation on the Condensation of R-134a on Enhanced Tube Geometries," **L.E. Rewerts**, J.B. Huber, and M.B. Pate, ASHRAE Transactions, Vol. 102, Part 2, 1996.

"Shell-Side Condensation Heat Transfer of HFC-134a, Part I: Finned Tube Performance," **L.E. Rewerts**, J.B. Huber, and M.B. Pate, ASHRAE Transactions, Vol. 100, Part 2, 1994.

"Shell-Side Condensation Heat Transfer of HFC-134a, Part II: Enhanced Tube Performance," **L.E. Rewerts**, J.B. Huber, M.B. Pate, ASHRAE Transactions, Vol. 100, Part 2, 1994.

"Shell-Side Condensation Heat Transfer of HFC-134a, Part III: Comparison of HFC-134a and CFC-12," **L.E. Rewerts**, J.B. Huber, and M.B. Pate, ASHRAE Transactions, Vol. 100, Part 2, 1994.

"Assessments of Microcomputer Based Methodologies for Performing Technical Analyses of Energy Conservation Projects in Buildings," **L.E. Rewerts**, H.N. Shapiro, and R.M. Nelson, Final Report, Energy Bureau of the Iowa Department of Natural Resources, 1991.