

Biographical Sketch of Steven L. Stice

Dr. Steven L. Stice has more than sixteen years of research and development experience in biotechnology and is a co-founder of five biotechnology companies. He produced the first cloned rabbit in 1987 and the first cloned transgenic calves, George and Charlie, in 1988. In 1997 his group produced the first genetically modified embryonic stem cell derived pigs and cattle. This research led to publications in *Science* and *Nature* journals, national news coverage from CBS, NBC, ABC, and CNN, and the first U. S. patents on cloning animals and cattle embryonic stem cells. Dr. Stice holds fourteen patents with six pending, all dealing with stem cells or cloning. In 2001, Dr. Stice announced a breakthrough in the cloning process and the first cloned animal (calf) from an animal that was dead for 48 hours.

Throughout his career he has published and lectured on cloning and stem cell technologies. Prior to joining the University of Georgia, Dr. Stice was a cofounder and Chief Scientific Officer at Advanced Cell Technology, a company developing cloning and stem cell technology.

Dr. Stice is a Professor and has a Georgia Research Alliance Eminent Scholar endowed chair at the University of Georgia. His research focuses on developing innovative animal cloning and stem cell technologies. He cofounded CytoGenesis, Inc, which was later purchased by BresaGen. Dr. Stice helped BresaGen develop four of the human embryonic stem cell lines approved for NIH funding.

Dr. Stice was named one of the One Hundred Most Influential Georgians in 2002 by *Georgia Trend* magazine. In 2000, he was named one of the top forty entrepreneurs under forty years old in Georgia; he received the AGR grand president's award for leadership in agriculture and the Outstanding Young Alumni Award from the University of Illinois.

Dr. Stice received a B.S. degree in agricultural science in 1983 from the University of Illinois, an M.S. degree in 1985 from Iowa State University, and a Ph.D. in 1989 from the University of Massachusetts in Amherst.



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**The George W. Woodruff
School of Mechanical Engineering
Presents the Ninth Annual**

**Harold W. Gegenheimer
Lecture on Innovation**



Dr. Steven L. Stice

**Thursday
October 16, 2003
3:30 P.M.**

Van Leer (ECE) Auditorium



**Georgia Institute
of Technology**

Lecture Synopsis

*Cloning Technology at a Crossroad:
Raelians or Real Science?*

Fifty years ago Briggs and King cloned the first frog embryo. Since that time, there has been tremendous interest in, and concern about, how the science will be used. Cloning advances have been a boon for many groups, including the movie industry, the press, and ethical and scientific experts, who have hit the speech and book selling tours. It has also been a boom for the religious cults like the Raelians who claimed they cloned the first human last year.

Once we get past the hype and the fiction, where have cloning innovations taken us and where is it going? Today, pharmaceutical companies are producing lifesaving drugs cheaper and safer through cloned animals. Cloning is being used to produce farm animals using fewer natural resources to produce the same amount of protein. In the future, cloning technology may improve the quality of life for people suffering from diabetes, Parkinson's, and other debilitating diseases. Cloning is a scientific phenomenon that turns old cells into young cells, thus providing insight into the aging process and cancer. Someday, someone may clone another human being.

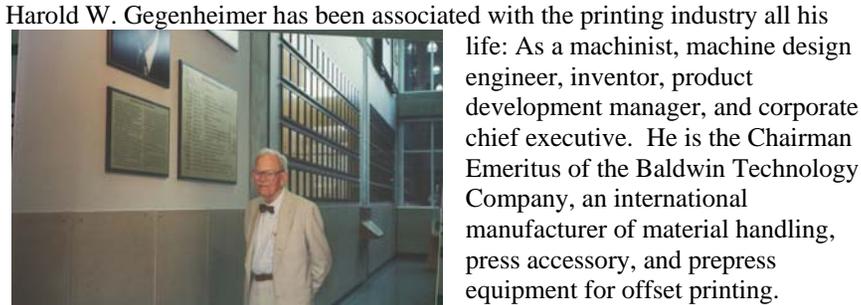
As is the case with any technological advance, there have been setbacks, and we will need to decide whether the potential benefits outweigh the risks. Also, we certainly have not seen the last of the Raelians.

Program

Introduction	Dr. Ward O. Winer Eugene C. Gwaltney, Jr. Chair of the Woodruff School of Mechanical Engineering
Lecture	Dr. Steven L. Stice Professor and Georgia Research Alliance Eminent Scholar, University of Georgia
Question-and- Answer Session	Drs. Stice and Winer
Concluding Remarks	Dr. Winer

**Please join us after the lecture for a reception at the
George P. Burdell Plaza.**

Biographical Sketch of Harold W. Gegenheimer (BME 1933)



Harold W. Gegenheimer has been associated with the printing industry all his life: As a machinist, machine design engineer, inventor, product development manager, and corporate chief executive. He is the Chairman Emeritus of the Baldwin Technology Company, an international manufacturer of material handling, press accessory, and prepress equipment for offset printing.

His father, William, started the Baldwin Company in 1918 in a small building next to their house in Baldwin (Long Island), New York. He invented the Baldwin Press Washer and the company emerged as a manufacturer of printing press accessories and controls.

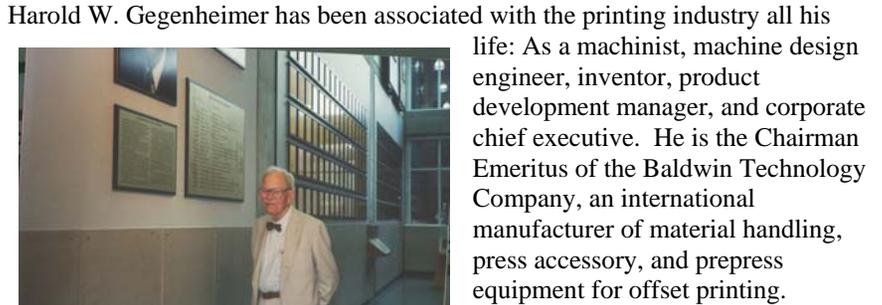
Harold always took an interest in things mechanical, so it was natural that he came to Georgia Tech, where he received his bachelor's degree in mechanical engineering in 1933. Later, he invented the Convertible Offset Perfecting Press, a feature used by most press manufacturers, that allows for one or more colors to be printed on both sides of the paper with just one pass through the press. His inventions, for which many United States and foreign patents have been obtained, were keys to the great growth of the offset printing process after World War II.

Mr. Gegenheimer was President of the National Printing Equipment and Supply Association from 1977 to 1979. He has been an officer or director of other industry associations and the recipient of numerous technical and educational awards. In 1983 he was elected Graphic Arts Man of the Year. In 2003, he received the Harold Falk Distinguished Alumnus Award from Chi Psi fraternity for outstanding accomplishments.

Mr. Gegenheimer is a long-time contributor to Georgia Tech's *Thousand Club*, served as co-chair of his 50th Reunion Committee, and was the recipient of the 1996 Woodruff School Distinguished Alumnus Award.

An endowment given to the Woodruff School in 1995 by Mr. Gegenheimer established the Harold W. Gegenheimer Lecture Series on Innovation. His endowment supports student programs that encourage creativity, innovation, and design. Through the lecture series and support of capstone design projects, students are exposed to processes that stimulate creativity and lead to inventions and patents. As an inventor, Mr. Gegenheimer continues to express an interest in the great advances made at his alma mater through innovative programs that link industry with graduate and undergraduate studies. His endowment supports the School's display, *Patents of the Woodruff School Faculty*, which features Mr. Gegenheimer's twenty patents and 187 U. S. patents of current Woodruff School faculty.

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