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Resume - Cronin B. Vining

RESUME

Cronin Beals Vining

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<http://cvining.com/> ^[2]

Born: August 22, 1957, Baltimore, Maryland USA

Attachment	Size
CBV20100621.pdf ^[3]	174.4 KB

Professional Experience

Professional Positions

1995-present President and founder, ZT Services

Information and consulting services to the energy conversion industry. Clients include Global 500 companies (Honda, Whirlpool), venture capi (Carl Berg, Dawson Ventures, Kleiner Perkins Caufield and Byers), thermoelectric manufacturing firms (Marlow, Melcor, Tellurex), federal age (Defense Advanced Research Projects Agency, Ames Laboratory USDoE, NASA/Glenn, NASA/JPL, NASA/HQ), and a variety of other client (BSST, Tecumseh). ZT Services also maintains an extensive sponsor-supported web site on thermoelectrics (<http://www.zts.com/> ^[2]) and prov web and internet services for the International Thermoelectric Society (<http://www.its.org/> ^[4]), and a number of commercial clients.

1999-2003 Affiliate Professor of Physics, **Auburn University**, Auburn, Alabama

Collaborations with Prof. Peter Barnes's group on thermionic and thermoelectric projects, resulting in several papers (written primarily by grad students). Served on advisory committees for one Masters and two Ph.D. students.

1995 Guest Lecturer, Various Universities, Companies and National Laboratories in Japan (January).

1994-2004 Research Advisor, **Ames Laboratory USDoE**, Ames, Iowa.

Theoretical and experimental development of new thermoelectric materials. Emphasis on novel materials systems such as heavy fermions an metals, not traditionally associated with high thermoelectric performance.

1994 Consultant to **Dawson Ventures, Inc.**, San Jose, California

Evaluation of the technical and business potential of novel, high-risk/high-payoff energy conversion technologies.

1990-1991 Consultant to Marlow Industries, Dallas, Texas

Concepts, approaches and program plans for the development of advanced thermoelectric cooling materials capable of achieving cryogenic temperatures with efficiencies comparable to dynamic cooling technologies.

1987-1994 Member of Technical Staff

Jet Propulsion Laboratory/California Institute of Technology (Caltech), Pasadena, California, Thermal Power Conversion Group

Theoretical and experimental development of thermoelectric materials for advanced space power applications, with special emphasis on the aspects of thermoelectric energy conversion and development of advanced thermoelectric materials. Task Manager for 4-5 tasks related to s germanium, boron carbide and rare-earth chalcogenide thermoelectric materials, (\$500K/year) 1988-89. Task Manager for advanced thermoelectric materials development, with emphasis on transition-metal silicides, (\$200K-\$250K/year) 1990-93. Task Manager for a JPL Technology Affiliates Program sponsored by Marlow Industries to transfer JPL developed thermoelectric technology based on skutterudite thermoelectric materials to Marlow Industries, (\$350K/year) 1993-94. Proposal Manager for a three year program on the basic physics and chemistry of skutterudite thermoelectric materials sponsored by the Office of Naval Research, awarded in 1994 (\$250K/year).

1984-1987 Senior Physicist

Design and implementation of a complete high temperature thermoelectric materials preparation and characterization facility suitable for research and development of state-of-the-art thermoelectric materials to be used in space nuclear power generation systems. This facility included induction and resistance melting, vacuum casting, pressure sintering, inert atmosphere handling capabilities as well as thermal diffusivity, thermal conductivity, Seebeck coefficient, Hall Effect, Differential Scanning Calorimetry (DSC), Differential Thermal Analysis (DTA), Thermogravimetric Analysis (TGA) and X-ray diffraction measurement capabilities, most of which could be performed from 300 to 1300 K. \$750,000 value.

Program manager for internal General Electric R&D programs on thermoelectric materials (1984-\$100,000; 1985-\$160,000; 1986-\$40,000). Program manager for NASA-JPL rare-earth chalcogenide development programs at General Electric (1984-1985-\$130,000). Program manager subcontract to Thermo Electron Corporation on SiGe/GaP alloy development (1986-\$100,000). Project leader and principle investigator for C sponsored Improved Thermoelectric Materials Development program, \$2,700,000 over 3 years.

Responsible for the daily direction of one Ph.D., two engineers and three technicians.

Education

Education

1983: Postdoctoral Fellow, Ames Laboratory-US Department of Energy, Ames, Iowa.

Acting group leader for a group of five graduate students and one technician.

1983: Ph.D. (Solid State Physics), Iowa State University, Ames, Iowa.

"Superconductivity and Long Range Magnetic Order in Ternary Rare-Earth Iron Silicides." Major professor: Dr. R. N. Shelton

1980-1983: Research Assistant, Ames Laboratory-US Department of Energy, Ames, Iowa.

Superconductivity and magnetism in novel materials. Preparation of novel superconducting, semiconducting and magnetically ordered materials including ternary rare-earth borides and silicides. X-ray diffraction and metallographic characterization. Superconducting and magnetic transition temperature determinations using magnetic susceptibility, electrical resistivity and heat capacity measurements. High pressure measurements using piston (25 kbar) and diamond anvil cells. Construction of calorimeter for 0.3 K to 25 K.

1978-1980: Teaching Assistant, Department of Physics, Iowa State University, Ames, Iowa.

1974-1978: B. S. (Physics), Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

Undergraduate research on microwave spectroscopy and construction of a simple mass spectrometer.

1971-1974: W. T. Woodson High School, Fairfax County, Virginia.

Honors, Awards and Society Activities

Honors, Awards and Society Activities

2007 Doctor Honoris Causa, Odessa State Academy of Refrigeration, Odessa, Ukraine

1997 Elected Full Member of the International Academy of Refrigeration, Section of Thermoelectric Cooling and Materials, St. Petersburg, Russia (the first US member)

1995 Elected Academician in the International Thermoelectric Academy, Chernovtsy, Ukraine

1994-1995 President of the International Thermoelectric Society

1991-1994 Editor of the International Thermoelectric Society Newsletter

1990 Elected to the Board of Directors of the International Thermoelectric Society

1990 Best Technical Paper Award at the IX International Conference on Thermoelectrics, March 19-21, 1990, Pasadena, California

1986 General Manager's Honors Award, General Electric Space Division

1983 G. W. Fox Memorial Award (Outstanding Research Assistant) Physics Department, Iowa State University, Ames Iowa

1981 Member of the American Physical Society (membership lapsed)

1980 Richard G. Patrick Award (Outstanding Teaching Assistant), Physics Department, Iowa State University, Ames, Iowa

Conference Organizing and Advisory Committees


Conference Organizing and Advisory Committees

1. IX International Conference on Thermoelectrics (USA), Pasadena, California, March 19-21, 1990.
2. Modern Perspectives on Thermoelectrics and Related Materials, Materials Research Society Symposium, Anaheim, California, May 1-2, 1991.
3. XI International Conference on Thermoelectrics, Arlington, Texas, October 7-9, 1992.
4. XII International Conference on Thermoelectrics, Yokohama, Japan, November 9-11, 1993.
5. XIII International Conference on Thermoelectrics, Kansas City, Missouri, August 30-September 1, 1994.
6. XIV International Conference on Thermoelectrics, St. Petersburg, Russia, June 27-29, 1995.
7. XVI International Conference on Thermoelectrics, Dresden, Germany, August 26-29, 1997.
8. XVII International Conference on Thermoelectrics, Nagoya, Japan, May 25-28, 1998.
9. XVIII International Conference on Thermoelectrics, Baltimore, Maryland, USA, August 29-September 2, 1999.
10. 5th European Workshop on Thermoelectrics, Pardubice, Czech Republic, September 20-21, 1999
11. XX International Conference on Thermoelectrics, Beijing, P. R. China, June 8-11, 2001.
12. Next Generation Thermal Management Materials and Systems, Dallas, Texas, October 28-30, 2002. Conference Co-chair.
13. XXIII International Conference on Thermoelectrics, Adelaide, Australia, July 25-29, 2004.

Websites

• Websites Designed, Hosted & Maintained

-  **International Thermoelectric Society** ^[5], <http://www.its.org> ^[5]

-  **Marvel Thermoelectrics** ^[6], large-scale thermoelectric refrigeration, <http://www.marvelte.com> ^[6]

- Thermoelectric News, <http://www.zts.com> ^[7]

-  **Sandmarks.org**, The poetry of Larry Whitlow, <http://www.sandmarks.org> ^[8] and <http://www.forgiveness.com> ^[9]

• Websites Hosted Only (content maintained by owner)

-  **Thermion company** ^[10], <http://www.thermion-company.com> ^[10]
Thermoelectricity for Micro and Opto Electronics

• Conference Websites Designed & Hosted (site content authored by organizing committees)

- Annual International Conference on Thermoelectrics
 - [ICT2011 Website](#) ^[11]
 - [ICT2010 Website](#) ^[12]
 - [ICT2009 Website](#) ^[13]
 - [ICT2005 Website](#) ^[14]
 - [ICT2003 Website](#) ^[15]
 - [ICT98 Website](#) ^[16]
 - [ICT97 Website](#) ^[17]
- Past European Conference on Thermoelectrics (ECT) Websites:
 - [ECT2007 Website](#) ^[18]
 - [ETS2002 Website](#) ^[19]
 - [ETS99 Website](#) ^[20]

Book Chapter

[vining2005-1] Vining CB [24], Rowe DM [25], Stockholm JG [26], Rao KR [27]. [History of The International Thermoelectric Society](#) [28]. In: [Rowe DM](#) [25], [Thermoelectrics Handbook: Macro to Nano](#). Boca Raton, FL USA: CRC Press; 2005. Ap. 1:7. [Abstract](#) [29] [Tagged](#) [30] [XML](#) [31] [BibTex](#) [32] [Google Scholar](#) [33]

[davis2001-1] Davis PS [34], Barnes PA [35], Vining CB [24], Pope AL [36], Schneidmiller B [37], Tritt TM [38], et al. [High temperature thermal conductivity measurements of quasicrystalline \$Al_{70}Ge_{20}Pd_{10}Mn_{10}\$](#) [39]. In: [Tritt T.M.](#); [Nolas M.M.](#); [KGS: GD](#) [40], editor. Thermoelectric Materials 2000 - The Next Generation Materials for Small-Scale Refrigeration and Power Generation Applications. Symposium: Materials Research Society Symposium Proceedings. Vol 626. Warrendale, PA, USA: Mater. Res. Soc; 2001. p. Z5.4.1-7. (Thermoelectric Materials 2000 - The Next Generation Material Small-Scale Refrigeration and Power Generation Applications Symposium; vol 626). [Abstract](#) [41] [Tagged](#) [42] [XML](#) [43] [BibTex](#) [44] [Google Scholar](#) [45]

[vining1995-3] Vining CB [24]. [Thermoelectric Properties of Silicides](#) [46]. In: [Rowe DM](#) [25], editor. CRC Handbook of Thermoelectrics. London: CRC Press; 1995. p. 277-86. [Tagged](#) [47] [XML](#) [48] [BibTex](#) [49] [Google Scholar](#) [50]

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[vandersande1993-1] Vandersande JW [69], Fleurial J- [70], Vining CB [24], Beaty J [71], Rolfe J [72], Klemens PG [73]. [Phonon Scattering by Ultrafine Particulates in SiGe Alloys at High Temperatures](#) [74]. In: [Meisner M](#) [75], [Pohl RO](#) [76], editors. Phonon Scattering in Condensed Matter VII. Vol 112. E Heidelberg: Springer-Verlag; 1993. p. 44-5. (Springer Series in Solid-State Sciences, Volume 112; vol 112). [Tagged](#) [77] [XML](#) [78] [BibTex](#) [79] [Google Scholar](#) [80]

[vandersande1992-1] Vandersande JW [69], Vining CB [24], Fleurial J- [70]. [Novel measurement techniques](#) [81]. In: [Horn SB](#) [82], editor. Proceedings of the 1992 1st National Thermogenic Cooler Conference. Fort Belvoir, VA: Center for Night Vision and Electro-Optics (unpublished); 1992. p. 73-86. [Tagged](#) [83] [XML](#) [84] [BibTex](#) [85] [Google Scholar](#) [86]

[vining1992-9] Vining CB [24], Williams RM [87], Underwood ML [88], Ryan AM [89], Suitoer JW [90]. [Reversible thermodynamic cycle for AMTEC power conversion](#) [91]. In: Proceedings of the 27th Intersociety Energy Conversion Engineering Conference. Vol 3. San Diego, CA, USA: IEEE, Piscatawa USA; 1992. 3.12p. 3.127. (Proceedings of the 27th Intersociety Energy Conversion Engineering Conference; vol 3). [Abstract](#) [92] [Tagged](#) [93] [XML](#) [94] [BibTex](#) [95] [Google Scholar](#) [96]

[vining1992-2] Vining CB [24]. [The thermoelectric limit \$ZT=1\$: Fact or Artifact](#) [97]. In: [Horn SB](#) [82], editor. Proceedings of the 1992 1st National Therm Cooler Conference. Fort Belvoir, VA: Center for Night Vision and Electro-Optics (unpublished); 1992. p. 26-9. [Tagged](#) [98] [XML](#) [99] [BibTex](#) [100] [Google Scholar](#) [101]

[vandersande1991-1] Vandersande JW [69], Vining CB [24], Zoltan A [102]. [Thermal Conductivity of Natural Type IIa Diamond Between 500 K and 125 K](#) [103]. In: 2nd International Symposium on Diamond Materials. Washington, D.C.: Electrochemical Society; 1991. [Abstract](#) [104] [Tagged](#) [105] [XML](#) [106] [BibTex](#) [107] [Google Scholar](#) [108]

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Conference Paper

- [vining2007-1] Vining CB [24]. [ZT ~ 3.5: Fifteen Years of Progress and Things to Come](#) [165]. In: [Semenyuk V](#) [166], editor. European Conference on Thermoelectrics, ECT2007, available at <http://ect2007.its.org/system/files/u1/pdf/02.pdf>. Odessa, Ukraine; 2007. [Abstract](#) [167] [Tagged](#) [168] [XML](#) [169] [BibTex](#) [170] [Google Scholar](#) [171]
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- [vining1999-1] Vining CB [24]. [Thermoelectric Measurements on Multi-Layer Thin Films](#) [188]. In: Bulletin of the American Physical Society. Vol March 1999. [Tagged](#) [189] [XML](#) [190] [BibTex](#) [191] [Google Scholar](#) [192]
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- [foley1998-1] Foley JR [216], Davis PS [217], Barnes PA [218], Vining CB [24]. [3-Omega Method Poster](#) [219].; 1998. [Tagged](#) [220] [XML](#) [221] [BibTex](#) [222] [Google Scholar](#) [223]
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- [vining1991-2] Vining CB ^[24], [A model for the high temperature transport properties of heavily doped p-type silicon-germanium alloys](#) ^[329]. In: Allred ^[330], Vining CB ^[24], Slack GA ^[331], editors. Modern Perspectives on Thermoelectrics and Related Materials. Vol 234. Pittsburgh, PA, USA: Mater. R Soc.; 1991. p. 95-104. [Abstract](#) ^[332] [Tagged](#) ^[333] [XML](#) ^[334] [BibTex](#) ^[335] [Google Scholar](#) ^[336]
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