

Name	R. Richard Summerhill
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Work Address	10233 Timberhill Rd Manchester, MI 48158 (734) 428-1422 rrsum@summerhill.org
Personal	Date of Birth: April 20, 1944
Current Position	Retired, Internet2; Network Consultant; Photographer
Education	B.A. – Monmouth College, Monmouth, IL (1962-66) M.S. – University of Iowa, Iowa City, IA (1966-67) Ph.D. – University of Iowa, Iowa City, IA (1967-69)
Work Experience	
2009-	Network Consulting Rick Summerhill Photography
2007-2009	Chief Technology Officer, Internet2 The Internet2 Network Design The Dynamic Circuit Network The GENI Project for Internet2
2004-2007	Director, Network Research, Architecture, and Technologies, Internet2 Project Director of the HOPI project Design and Implementation of the MAN LAN Exchange Point Design and Implementation of the Abilene Observatory
2002-2004	Associate Director, Backbone Network Infrastructure, Internet2 Management of the Abilene Network
1998-2002	Executive Director, Great Plains Network Design and implementation of the Great Plains regional network
1997-1998	Network Administrator, University of Kansas Network Design and vBNS Connectivity
1996-1998	Network Administrator, KanREN Network Design and Administration
1996-1997	Faculty, Department of Mathematics, Kansas State University Associate Professor and Administration of Super Computer Facilities Split Appointment with KanREN
1989-1996	Assistant Director, Computing and Network Services, Kansas State University Principle Architect of Campus Data Network Design and Implementation of Campus Unix System

July 30, 2009

1972-1989	Faculty, Department of Mathematics, Kansas State University 1985-1989, Associate Professor 1981-1985, Department Head 1979-1981, Associate Professor 1972-1979, Assistant Professor
1970-1972	Research Assistant, School of Mathematics, Institute for Advanced Study Research Assistant to Deane Montgomery
1969-1970	Faculty, Department of Mathematics, University of Missouri Assistant Professor, Department of Mathematics
1966-1969	NSF Traineeship, University of Iowa
Related Experience	
2001-2002	Chair, Executive Committee, The Quilt
1998-2002	Chair, Abilene Technical Advisory Committee
1991-1996	KanREN Executive Committee Original Participant in KanREN
1995-1996	Private Consultant, Wide Area Network Designs Network Design and Implementation
1977-1987	Visiting Lecturer, The American Mathematical Association AMA Visiting Lecture Program
Honorary and Professional Societies	Association of Computing Machinery Sigma Xi Association of Members of the Institute for Advanced Study Usenix
Honors	AMA Visiting Lecture Program, 1977-87 Finalist, Outstanding Teacher Award, Kansas State University, 1978-79
Mathematical Publications	<i>Tree-like continua and cellularity</i> , Proc. Amer. Math. Soc., 26 (1970), 201-205 <i>Unknotting cones in the topological category</i> , Pacific Journal of Mathematics, 40 (1972), 221-228 <i>Pseudo-boundaries and pseudo-interiors in euclidean spaces and topological manifolds</i> , Bull. Amer. Math. Soc. 78 (1972), 1009-1014 (with Ross Geoghegan) <i>Concerning the shapes of finite-dimensional compacta</i> , Trans. Amer. Math. Soc., 193 (1973), 281-292 (with Ross Geoghegan) <i>General position for closed subsets of euclidean space</i> , General Topology and Its Applications, 3 (1973), 339-345 <i>Pseudo-boundaries and pseudo-interiors in euclidean spaces and topological manifolds</i> , Trans. Amer. Math. Soc., 194 (1974), 141-165 (with Ross Geoghegan)

	<p><i>Finite-dimensional spaces having many of the topological properties of separable Hilbert Space l_2</i>, Bull. Polon. Acad. Sci., Serie des sciences, math., astr., et phys., 22 (1974), 949-954 (with Ross Geoghegan)</p> <p><i>A characterization of the connectivity of a manifold in terms of large open cells</i>, Proc. Amer. Math. Soc., 45 (1974), 285-290</p>
Network Publications	<p><i>Dynamic provisioning of LightPath services for radio astronomy applications</i>, (With J. Sobieski, T. Lehman, C. Rusczyk, B. Jabbari A. Whitney), The International Journal of Grid Computing (FGCS), 22/8, October, 2006.</p>
Mathematics Reviewing and Refereeing	<p>Mathematica Reviews Zentralblatt fur Mathematik Transactions of the American Mathematical Society Fundamenta Mathematica</p>
Mathematics Invited Addresses	<p>University of Wisconsin at Parkside, 1984 Marquette University, 1984 Grinnell College, 1983 Marymount College, 1983 Kansas State University, 1975 University of Missouri, 1972 Kansas State University, 1971 Institute for Advanced Study, 1970 University of Missouri, 1969 Western Michigan University, 1969</p>
Mathematics Courses Taught	<p>Calculus I, II, III – Coordinator and Lecturer College Algebra Elementary Applied Mathematics Series and Differential Equations Elementary Topology Set Theory and Logic General Topology Algebraic Topology Topics in Topology Research in Mathematics</p>
Networking Presentations	<p>Available on Request</p>
References	<p>Jerry Sobieski, Director, International Research Initiatives NORDUnet jerry@nordu.net (301) 346-1849</p> <p>Eric Boyd, Deputy Technology Officer, Internet2 1000 Oakbrook Dr, Suite 300 Ann Arbor, MI 481004 (734) 913-4250 eboyd@internet2.edu</p>

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Interests

Networking
Computing and Operating System Design
Geometric Topology
Numerical Analysis
Photography
Woodworking
Bicycling
Labrador Retrievers
Golf

Bio

Dr. Summerhill retired as Chief Technology Officer for Internet2 on June 19, 2009. He is now involved with network consulting, and also works as a photographer for Rick Summerhill Photography.

As Chief Technology Officer for Internet2, Dr. Summerhill was responsible for leading the technology development efforts within the Internet2 community. His duties included providing technology vision for the community and he served as the focal point for such diverse areas as dynamic circuit services and middleware. Rick's team also provided specific support for the network research area. In his previous position as Director of Network Research, Architecture and Technologies for Internet2, Rick had engineering responsibility for the Abilene network and led the Internet2 Hybrid Optical and Packet Infrastructure (HOPI) project. Prior to joining Internet2 in December of 2002, Rick served as the executive director of the Great Plains Network, an advanced regional network centered in Kansas City, Missouri. He has been associated with advanced networking at the campus, state, regional, and national levels for the last twenty years. Prior to network engineering, he served on the research faculty in Mathematics at Kansas State University. Rick attended Monmouth College where he received a B.S. in Mathematics and Physics and University of Iowa where he received a M.S. and Ph.D. in Mathematics.