

RALPH V. ROGERS, Ph.D.

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PROFESSIONAL PROFILE

Passionate, high impact, results-driven senior executive with over 20 years of experience successfully leading complex academic organizations through change driven by growth, challenging environments, and restructuring. An entrepreneurial and creative academic leader used to a dynamic, fast pace environment of constant change and competition. Brings a collaborative leadership style focused on building performance, outcome driven teams who are empowered to solve problems, know the importance of accountability, and who know how to work across organizational and institutional boundaries and engage the broader public community. Recruited to organizations throughout his career for his leadership and visioning skills to widely promote his institutions, increase productivity, raise the quality of academic enterprises, and foster growth and collaborations. Earned a reputation for integrity, innovation, transparency, and leaving organizations fiscally healthier, more competitive and more sustainable than he found them.

PROFESSIONAL EXPERIENCE

NOVA SOUTHEASTERN UNIVERSITY, Fort Lauderdale, FL – September 2013 to present

Positions Held: ***Provost and Executive Vice President for Academic Affairs***

Summary of Duties and activities: Serve on President's three-member Senior Executive Leadership Team. Serve in the absence of the President. Responsible for all phases and aspects of the NSU's complex, multi-campus academic enterprise including strategic planning, revenue generation, expenses, budget, and personnel. Responsible for institutional academic quality, integrity, and accreditation. Lead development and implementation of academic affairs vision, strategic plan, and master plan. Establish and review Academic Affairs Policies. Initiate and support fundraising and advancement activities. Serve as Administrative Liaison to NSU Board of Trustees' Academic Affairs and Strategic Planning Committee. Oversee and manage the reappoint process for continuing contracts of the faculty.

Administrative Portfolio

- 24,670 students (5,156 undergraduates, 15,638 graduate, 3,879 First Professional, 45 percent of all students are fully on-line every semester)
- 23 direct reports, 813 full-time faculty, 1000 part-time faculty, 2238 staff
- Office of Research and Technology Transfer
- University School (K-12)
- Farquhar Honors College
- College of Business and Entrepreneurship
- College of Education
- College of Engineering and Computing
- College of Humanities, Arts and Social Sciences
- College of Law
- \$355,000,000 budgets and expenditures
- 18 Research Institutes and Centers
- Office of Academic Quality, Assessment and Accreditation
- Office of Institutional Effectiveness
- College of Osteopathic Medicine
- College of Psychology
- College of Dental Medicine
- College of Healthcare Sciences
- College of Allopathic Medicine (startup)
- College of Nursing
- College of Pharmacy

- College of Natural Sciences and Oceanography
- College of Optometry

Examples of specific accomplishments and activities of Academic Affairs while NSU Provost include:

Academic Leadership

- Instituted and led Academic Affairs reorganization to align 154 professional, graduate, and undergraduate degree programs into 18 colleges and 84 academic departments with disciplinary affinity related programs.
- Led Enrollment Quality Improvement Team to “right size” the College of Education resulting in expense reductions of \$5,000,000 per year, improved student support, redesigned marketing, new organization structure and focused program offerings.
- Obtained and implemented model and guidelines for the administrative support and staffing used in the College of Education “right-sizing” initiative as a benchmark for staffing of the reorganized and restructured academic colleges and departments.
- Established centralized measurement, tracking, and analysis of faculty workload and teaching productivity.
- Established degree program metrics for enrollments, productivity, cost efficiencies, and quality.
- Implemented professional development program for deans and department chairs to support their new roles in the realigned Academic Affairs organizational structure.
- Established a standard course evaluation process and instrument based on a nationally normed instrument from the IDEA Company for all University courses.
- Facilitated and coordinated dean and faculty efforts to create a B.S. General Engineering degree program and a College of Engineering and Computing.
- Implemented partnership with the John Gardner Institute for Excellence in Undergraduate Education to develop a comprehensive, integrated NSU wide a Foundation of Excellence program and a common learning outcomes first-year experience course for all freshmen.
- Led initiation and implementation of experiential education as a foundation philosophy and identity of NSU’s undergraduate experience and learning including a requirement for graduation of two experiential learning courses for credit, an internship, and a capstone course.
- Obtained and implemented predictive analytic tools to establish school-specific predictive models based on the student’s “digital footprint” to discovery and identify key decision points that affect student success.
- Recruited and hired four new deans including deans of Law, Education, Engineering, and Allopathic Medicine.

Research Leadership

- Led the team and analysis which identified NSU’s four strategic research themes for institutional emphasis and investment.
- Designed and implemented a new research brand and organizational structure around life sciences for NSU’s research-based university centers and institutes focused on NSU’s four strategic research themes.
- Hired new Senior Vice President for Translational Research and Economic Development.

Partnerships and Outreach

- Provided resources and championed efforts with Student Affairs leadership to create the Veterans Resource Center as a “one-stop-shop” for serving veterans and active duty military with the many Veteran services offered for NSU.

- Organized and led NSU team of over 80 people from all academic and administrative units on campus to create an exhibit and manage NSU participation in the *eMerge Americas* international technology and economic development conference.
- Member of Broward County Workshop: Education and Youth Advisory Committee

Academic Quality

- Established the Office of Academic Assessment and Accreditation under the Provost's Office to: centralize and coordinate regional accreditation compliance and oversight; to support disciplinary accreditation efforts of academic programs; reemphasize and improve the academic program review process; review and oversee the new programs approval process; and to review and propose academic policies and procedures related to academic quality and integrity.
- Serve as the NSU Chair for Southern Association of Colleges and School Commission on Colleges (SACSCOC) Reaffirmation Steering Committee charged with the preparation and coordination of NSU's SACSCOC reaffirmation self-study, Quality Enhancement Plan (QEP) development and 2017 site visit.
- Achieved reaccreditation or initial disciplinary accreditations from the following accrediting bodies for the identified academic units:

– Commission on Dental Accreditation (CDA)	D.M.D. Dental Medicine
– Commission on Accreditation for Allied Health Educational Program	M.S. Anesthesia
– Accreditation Review Commission on Education for the Physician Assistant	M.M.S. Physician Assistant
– Commission on Accreditation of Allied Health Education Programs/Joint Review Committee on Education in Diagnostic Medical Sonography (CAAHEP-JRCODMS)	B.S. Medical Sonography
– Commission on Accreditation of Allied Health Education Programs (CAAHEP)	B.S. Cardiovascular Sonography
– The Council on Education for Public Health	M.P.H. Public Health
– Accreditation Council for Pharmacy Education (ACPE)	Pharm D. Pharmacy
– American Psychological Association (APA)	Psy.D. Clinical Psychology
– Network of Schools of Public Policy, Affairs, and Administration (NASPAA)	M.P.A. Public Administration

Advancement and Development

- Part of Development Office Engagement Team for donors and potential donors in NSU \$250,000,000 capital campaign.
- Identified and developed relationships with potential major gift donors with interests in technology, engineering, and STEM student support.
- Part of Development team engaged with building relationship with donors for transformational gifts
- Management oversight of the following institutional grant awards:

- Hispanic/Latino and Low-Income Success in Computing and Engineering. U.S. Department of Education 2015, \$2.65 M.
- Preparing Hispanic/Latino Low-Income Students for Graduate Degrees and Careers in Computer Science, Department of Education. 2014 \$2.65
- Cooperative Efforts to Broaden Access to High-Need Computer Science Degrees. Department of Education. 2013. \$3.65M

PURDUE UNIVERSITY CALUMET, Hammond, Indiana – July 2008 to September 2013

Positions Held: ***Vice Chancellor for Academic Affairs and Provost, Professor of Engineering***

Duties and activities: Part of the Chancellor's five-member Executive Cabinet. Serve as the chief administrative officer in the absence of the Chancellor. Lead all aspects of the University's academic enterprise including budget creation and fiscal responsibility. Responsible for institutional academic quality, integrity, and accreditation. Develop and implement academic affairs vision and strategic plan. Advance multicultural and international initiatives within the University. Responsible for the faculty promotion and tenure process and its integrity. Adjudicate faculty grievances. Initiate and support fundraising and advancement activities.

Administrative Portfolio

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| – 10,000 students | – \$50,000,000 budgets and expenditures |
| – 275 full-time faculty, 315 part-time faculty, 240 staff, 240 graduate assistants | – Division of Academic Quality, Accreditation, and Outreach |
| – Division of Enrollment Management | – International Programs Office |
| – Research and Graduate Studies Office | – Sponsored Programs Office |
| – School of Management | – School of Nursing |
| – School of Liberal Arts and Social Sciences | – School of Education |
| – School of Engineering, Mathematics, and Sciences | – School of Technology |
| – Institutional Research Office | – Honors Program |
| – Center for Learning and Academic Success | – Childcare and Development Center |
| – Regional Academic Learning Center | – Seven Research-Engagement Centers |

Specific responsibilities, accomplishments, and activities while Provost include:

Enrollment, Academic Programs, and Academic Quality

- Achieved record enrollments and credit hour production in the fall of 2009.
- Increased Fall-to-Fall first year retention rates by seven percent since 2008 to 69.3 percent.
- Initiated the Foundations of Excellence program for first-year students.
- Involved over 1000 undergraduate students in funded and unfunded research with faculty.
- Implemented an orientation program for teaching assistances and part-time faculty.
- Redesigned the new faculty orientation program expanding from half-a-day to three days.
- Created and funded the new Office of Teaching, Learning, and Technology to support faculty development and specifically support the application of technology to instructional delivery.

- Initiated agreement and contract with the Academic Advisory Council, Inc. to provide predictive analytics starting in Fall 2013 for advising and retention planning by identifying students who are at risk and the student's potential for program success based on historical university and specific student data.
- Implemented web-based tools to support academic advising, degree audit, and transfer articulation to provide students and advisors status on meeting curriculum requirements and ability to explore impacts of their plans of studies on changing majors
- Created two-year, individualized leadership development program for academic department heads.
- Initiated and funded leadership development programs for non-administrative faculty.
- Led the University's Academic Quality Improvement Program (AQIP) processes as part of our Higher Learning Commission accreditation and chaired the AQIP Steering Committee.
- Implemented new undergraduate degree program in mechatronics and graduate degree programs in computer science and modeling and simulation.
- Expanded international students on campus by 50 percent to over 600 in support of the University strategic plan for internationalization of the curriculum and college experience.
- Reestablished ROTC courses and presence on campus.

External Funding

- Achieved a new record of over \$14,000,000 in external grants and contract awards in FY 2011.
- Requested and received Federal earmark funding of over \$12,000,000 in last three years for support of three research centers and construction of three new research facilities.

Partnerships and Engagements

- Partnered with the Federal Small Business Administration to fund and manage the Northwest Indiana Small Business Development Center (SBDC).
- Partnered with the City of Hammond to administer and support the Hammond Business Incubator.
- Partnered with the City of Hammond to create and support the Hammond Academy of Science and Technology, a new charter high school.
- Partnered with Academic Partners, Inc, a service provider, to package selected academic programs and to provide multi-state marketing and technical support for a highly scalable, accelerated on-line instruction. Current programs include RN to BS Nursing and M.S. Education.
- Partnered with the Crown Point School Corporation and Lake Central School Corporation to implement a unique program of dual credit enrollment with high school teachers delivering instruction under the supervision of University faculty with a quantitative quality control system based on blind grading.
- Partnered with the Northwest Indiana Center of Workforce Innovations, Indiana University Northwest, Ivy Tech, local businesses leaders and school corporations on a strategic plan for implementing college and workforce ready strategies into Northwest Indiana high schools under funding from the Lumina Foundation.
- Visited China and established Memorandum of Agreements and articulation agreements with ten Chinese universities.

Financial/Fiscal Management

- Cleared over \$4,000,000 in Academic Affairs of multi-year accumulated account deficits and over \$1,000,000 in recurring structural deficits in the first 24 months as Vice Chancellor. Academic Affairs now operates within budgets and revenues.
- Implemented budget reductions in 2010 of two percent of the base budget and 2011 a seven percent of the non-instructional budget.
- Implemented Lean/6 Sigma process improvement program in Financial Aid and the Registrar Offices resulting in reducing processing times for financial aid dispersing by 60 percent and reducing manual registration of students from 75 percent to 25 percent of all registrations.
- Developed and successfully implemented a new funding model for summer school to eliminate annual losses exceeding \$500,000. This was accomplished through a consensus building process that successfully engaged the faculty, Faculty Senate, academic administrators, students, and the Financial Services Division in its development.

Academic Affairs Organization

- Established the Sponsored Programs Office bringing pre-award and post-award functions under one director and organizational structure. Previously, pre-award and post-award functions were in different divisions reporting to different director lines.
- Merged the Sponsored Program Office and the Graduate Studies Office under one Associate Vice Chancellor for Research and Graduate Studies.
- Established the new division of Enrollment Management integrating the units of Admissions, Registrar, Financial Aid, University Division, and Honors Program under the new position of Associate Vice-Chancellor for Enrollment Management with a strong enrollment management philosophy focused on student success, retention, degree attainment and recruiting students who will persist.
- Established the International Programs Office to serve the over 600 international students on campus and integrate all international functions and personnel under one unit.
- Restructured the Office of Distance Education and Extended Learning, Space Management, the Academic Learning Center, the Office of Experiential Learning, and the Office of Academic Quality from four different reporting structures to reporting to one Assistant Vice Chancellor of Academic Outreach and Quality.
- Moved the Office of Institutional Research to a direct report of the Vice Chancellor of Academic Affairs.
- Created the new Department of Hotel and Tourism Management and moved the new department into multi-million redesigned and remodeled University Conference Center. This was supported by a \$5,000,000 gift from the owner of a major hotel corporation.
- Created the Center for Machine Packaging Technology with gifts and grants exceeding \$1,000,000 from the Machine Packaging Association, several machine packaging companies, and the National Science Foundation.
- Created the Center for Innovation through Visualization and Simulation (CIVS) and received Federal earmark funds to add 15,000 square foot addition of laboratories and offices to existing computer building.
- Redesigned and restructured the academic advising system comprising 24 professional advisors to improve advisor productivity, availability, and student satisfaction.
- Implemented web-based academic advising, degree audit, and transfer articulation tools to provide students status on meeting curriculum requirements and ability to explore impacts of their changing majors.

EAST CAROLINA UNIVERSITY, Greenville, North Carolina – July 2003 to June 2008

Positions held: ***Founding Dean and Professor, College of Technology and Computer Science***

Duties and activities: Manage growth, develop staff, established new college including creating a vision and strategic plan. Partner with local government and business leaders on regional economic development and industry recruitment. Oversee and expand extensive graduate and undergraduate distance learning programs. Obtain gifts and grants.

Administrative Portfolio

- 2000+ students
- 80 full-time faculty
- 18 support staff
- \$7,500,000 budgets and expenditures
- Center for Academic Advising
- Center for Innovation in Technology and Engineering
- Department of Construction Management
- Department of Technology
- Department of Engineering
- Department of Urban Planning
- Department of Computer Science
- Departments of Army and Air Force ROTC

Specific accomplishments and activities while Dean:

Enrollment, Academic Programs, and Academic Quality

- Increased student majors from 700 to 2,100 in three years.
- Increased student credit hour production by 85 percent in four years.
- Increased faculty by 40 professors and increased staff by 10.
- Established new College academic advising center and hired five advisors and a director.
- Hired 64 new faculty (including 22 Ph.D. engineers) and 16 new staff representing in three years to accommodate growth.
- Increased the number of underrepresented faculty 200 percent in three years (eight women, three African-Americans).
- Developed, gained state approval and successfully implemented ABET-accredited bachelor of general engineering degree. This was the first engineering program at ECU.
- Aligned B.S. Industrial Technology degree into 2+2/degree completion on-line distance education degree program with over 100 North Carolina community college AAS degrees.
- Implemented new on-line master's degrees in software engineering, construction management, and information and computer technology.
- Gained discipline accreditation for specific College programs from the Planning Accreditation Board, American Council for Construction Education, and the National Association of Industrial Technology in addition to ABET.

External Funding

- Increased grants and external funding awards in five years from \$0 to over \$2,600,000.
- Awarded Federal funding (\$2,000,000) to be a Department of Defense (DoD) designated Partnership Intermediary between DoD laboratories and private companies to license Federal Laboratories' intellectual property.

- Received three year \$1,300,000 National Science Foundation (NSF) Information Technology Experiences for Students & Teachers (ITEST) program grant “Biomechanics and Robotics Explorations for Information Technology Literacy and Skills in Rural Schools.”
- Increased donations, unrestricted grants, and in-kind gifts in five years from \$25,000 to over \$650,000.
- Obtained contract from North Carolina Department of Energy to manage program providing financial assistance to low-income residents of Eastern North Carolina to upgrade and retrofit manufactured homes with heat pumps to replace electric resistance heating systems. Chosen because of management structure and technical support. Total funding exceeded \$600,000.

Partnerships and Engagements

- Academic partner in the Vertical Lift Center of Excellence (VLCOE) at Naval Air Depot located at the Marine Corps Air Station (MCAS) Cherry Point.
- Academic Partner with the Small Business Development and Technology Center (SBDTC) in identifying small and start-up businesses to license Federal laboratory intellectual property.
- Member Chancellor’s Select Task Force on Economic Development.
- Member of Pitt County Economic Development Team for industry recruitment.

College Organization

- Created and organized the Department of Engineering in FY 2006.
- Created and organized the College Center for Academic Advising.
- Created and implemented the Center for Innovation in Technology and Engineering (CITE),.
- Successfully merged school and two other university departments from different schools into new College of Technology and Computer Science.

OLD DOMINION UNIVERSITY, Norfolk, Virginia – January 1998 to July 2003

Positions concurrently held: ***Chair and Professor, Department of Engineering Management and Systems Engineering (EMSE); Founding Director, National Centers for System of Systems Engineering; Director of Academic Programs for the Virginia, Analysis, Modeling, and Simulation Center (VMASC); Graduate Program Director for Modeling and Simulation Interdisciplinary Programs; Graduate Program Director for Global Engineering Graduate Program.***

Duties and activities: Lead eight faculty, three staff, 15 part-time faculty, and graduate assistants in the graduate only department (three Master’s programs and a Ph.D. program) and manage \$1,700,000 budget. Oversee quality control and management of synchronous distance learning program delivered to over 30 sites nationally and internationally each semester.

Specific accomplishments and activities while Chair:

Enrollment, Academic Programs, and Academic Quality

- Developed and implemented a computer-based asynchronous distance education program for Master of Engineering Management degree for U.S. Navy Nuclear Officers at sea. Over 400 officers enrolled in the first three years of the program.
- Implemented new Masters of Engineering in Systems Engineering at Northrup-Grumman Information Technologies in Northern Virginia. Sponsorship and funding beyond tuition provided by Northrup-Grumman.

- Received the American Society of Engineering Management's 2000 and 2002 Award for Excellence in Leadership in Engineering Management Graduate Education representative of the outstanding graduate engineering management program in the nation.
- Increased student credit hour production from 2000 to 5500 per year.
- Increased student applications to degree programs from 35 to over 175 per year.
- Increased synchronous distance learning courses from eight to 27 per year in ODU's TeleTechNet distance learning system.
- Developed, gained University and state approval and implemented Master of Engineering in Global Engineering, Master of Engineering in Modeling and Simulation, Master of Engineering in Systems Engineering, and Ph.D. of Modeling and Simulation (the first in the U.S.).
- Implemented undergraduate minor in Engineering Management, which enrolled over 200 students per year.
- Increased refereed journal articles from 0.16 to 2.3 per faculty per year

External Funding

- Increased external research funding from \$179,000 to over \$400,000 per year.
- Received revenues from the U.S. Navy Nuclear master's program of more than \$5,000,000 through 2004.
- Received revenues from Northrup-Grumman master's program of more than \$500,000 through 2004.

Partnerships and Engagements

- Established and implemented a project management mentoring program for businesses and organizations in transition.
- Served on the Virginia Modeling, Analysis, and Simulation Center's (VMASC) executive leadership committee as the Academic Liaison.
- Member of Organizing Committee for Modeling and Simulation Week in Hampton Roads.
- Established partnership with the eight universities members of the International Network for Higher Education in Engineering (INHEE) in Europe. INHEE students attend two specialization semesters at two different schools and conduct a thesis under the supervision of a member school to receive a master degree from a European school. Students completing a specialization semester at ODU received a Master of Engineering in Global Engineering from ODU in addition to the European degree.

Department Organization

- Founded and established the National Centers for System of Systems Engineering (NCSOSE), an independent, nonprofit, engineering research and application organizations to resolve problems, develop technologies, and direct research concerning major issues in the integration of complex system of systems.

UNIVERSITY OF CENTRAL FLORIDA, Orlando, Florida – August 1989 to January 1998

Positions held: ***Interim Chair and Associate Professor, Industrial Engineering and Management Systems; Program Coordinator, UCF's Modeling and Simulation Academic Initiative; Assistant Professor, Industrial Engineering and Management Systems.***

Duties and activities: Lead 22 faculty, 12 part-time faculty, six staff, and 30 graduate assistants; manage \$4,500,000 annual budget; teach; represent UCF in academic issues pertaining to modeling and simulation to outside businesses, not-for-profit organizations, and government organizations; administrative director of the

Intelligent Simulation Training Systems Laboratory with a director, research faculty, and up to ten graduate students; UCF simulation academic liaison with Department of Defense training commands, industry, Federal Agencies, and other academic institutions; coordinate university modeling and simulation academic issues; advise graduate students.

Example activities and accomplishments under my responsibility and leadership include:

Enrollment, Academic Programs, and Academic Quality

- Implemented program to offer courses from graduate simulation programs during working hours at U.S. Army Simulation, Training, and Instrumentation Command (STRICOM) Headquarters in Orlando, Florida.
- Instituted and implemented a program to offer undergraduate Industrial Engineering courses at Brevard Community College Campus.
- Oversaw and managed the graduate program in Engineering Management at Kennedy Space Center involving over 240 Center and contract employees.
- Organized and supported the IEMS Industrial Advisory Board.
- Served as Co-Principal Investigator Intelligent Simulation Tutoring System Laboratory working on projects which included: proof of concept intelligent tutoring system for air traffic control training; an expert systems based student advising system; and an intelligent tutor for use in undergraduate class in engineering economy.

External Funding

- Received over \$2,900,000 the last year as Department Chair in expended and new awards for research and education development.
- Solicited and obtained a private gift of \$50,000 to conducted workshop with representatives from academia, industry, government and the military to identify characteristics of a modeling and simulation professional.
- Grant from the Link Foundation (\$15,000) to develop concept and proposal for the creation of the Edwin A. Link Simulation Education Institute

Partnerships and Engagements

- The UCF representative to Team Orlando, a formal memorandum of understanding between UCF, the U.S. Army Simulation Training and Instrumentation Command (STRICOM), U.S. Navy Naval Air Warfare Center-Training System Division (NAWC-TSD), U.S Air Force Agency for Modeling and Simulation (AFAMS), NASA Kennedy Space Center (NASA-KSC), and the Training Systems Technology Consortium (TSTC) to jointly promote and support each other's efforts and capabilities in the modeling and simulation community of Central Florida.
- Conducted briefings with Congressman John Mica and staff, as well as, members from the Office of the Secretary of Defense and White House Technology Office on UCF simulation academic programs.
- Established a partnership with Cranfield University at the Royal Military College of Sciences in Shrivenham, England to jointly pursue development of academic programs in simulation, exchange faculty, and perform joint research.
- Presented invited keynote address at the Simulation Technology and Education Conference (SimTEC) Canberra, Australia.
- The Academic representative on the National Training Systems Association (NTSA) Strategic Planning Roundtable.

- Led effort which created a consortium of industrial engineering and computer science departments from Georgia Tech, North Carolina State U., Virginia Tech, and UCF to submit a proposal to NSF for funding an integrative graduate education, research, and training program in simulation.
- Established long-term agreement with Walt Disney Company to mentor and sponsor UCF Industrial Engineering Senior Design Teams.
- Served as a judge for Florida Engineering Society annual Florida Governor's New Product Award in 1995 and 1996.
- Member of the University I-4 Corridor: Software Proposal Development Ad Hoc Committee. Charge: Develop proposal for software sector of State Legislative initiative to develop high-tech corridor around Interstate 4 between Tampa and the Space Coast.
- Provided oversight and review on planning, design, and construction of the new Computer Science III Building as a member of the three people building committee.

OHIO UNIVERSITY, Athens, Ohio – June 1984 to July 1989

Positions held: **Assistant Professor, Industrial and Systems Engineering**

Duties and activities: Teach courses in information systems, system engineering and analysis, computer systems, and engineering problem-solving. Spent 1998 summer as Visiting Summer Faculty at Federal Aviation Administration (FAA) Headquarters in Washington, D.C. in FAA Vertical Flight Office. At FAA, worked on national airspace infrastructure design issues related to the civil tiltrotor and use of simulation to study those associated issues.

PIEDMONT VIRGINIA COMMUNITY COLLEGE, Charlottesville, Virginia – September 1982 to June 1984

Positions held: **Assistant Professor of Electronics Technology/co-op coordinator**

Duties and activities: Teach courses in electronic technology, coordinator for mandatory co-op program, industrial liaison with local industry; revised curriculum to bring it into compliance with state community college guidelines; advise and counsel students.

UNIVERSITY OF RIO GRANDE / RIO GRANDE COMMUNITY COLLEGE, Rio Grande, Ohio – September 1978 to September 1980

Positions held: **Program Coordinator/Instructor of Electronics Technology**

Duties and activities: Revise and develop electronic technology curriculum; hire, supervise, and evaluate faculty; allocate resources; organize and chair the industrial advisory committee; recruit students; student placement; teach courses in electronics technology; advise students.

BOOZ-ALLEN APPLIED RESEARCH, Bethesda, Maryland – September 1976 to September 1977

Position held: **Senior Engineer.**

Duties and activities: Consultant to U.S. Navy, U.S. Air Force, and Federal Aviation Administration (FAA) on air traffic control and command and control systems and problems. Analyze requirements/needs of the new command, control, and communication systems.

NAVAL ELECTRONICS SYSTEMS TEST AND EVALUATION DETACHMENT, St. Inigoes,

Maryland. **Senior Project Engineer** (last position title) July 1971 to September 1976

Duties and activities: Develop methods for test and evaluation of command and control systems and equipment. Perform project management, and contract monitoring, supervise technicians and junior engineers.

EDUCATION

Ph.D. Systems Engineering, University of Virginia of 1987
Master of Science in Industrial and Systems Engineering, Ohio University of 1983
Bachelor of Science in Electrical Engineering, Ohio University of 1971

RESEARCH and SCHOLARSHIP ACTIVITIES

FUNDED ACTIVITIES

Over \$12,500,000 in total awards as Principal Investigator or Co-Principal Investigator from sponsors such as: The Link Foundation, Concurrent Technologies, the State of Florida, the Virginia Port Authority, British Petroleum, Federal Aviation Administration, NASA, the Department of Defense, U.S. Army, U.S. Department of Energy, North Carolina Department of Energy, the Department of Education, and the Northstar Institute. All awards were sole source, unsolicited proposals, or directed projects. These were a result of working with the sponsors and developing relationships with those sponsors and organizations.

(Complete list of projects, sponsor, and awards available on request.)

EXAMPLE AWARDS

Emerging Technologies and Approaches to Minimize Discharges into Lake Michigan. Sponsor: BP Products of North America. Amount: **\$4,207,328**. Started November 2007. Continuing. Serve as PI and Project Manager.

Northwest Indiana Computational Grid Project. Sponsor: Department of Energy. Amount: **\$5,800,000** over four years. Started in October of 2006. Continues through September 2011. Serve as PI and Project Manager.

T2Bridge Technology Transfer and Transition Program. Sponsor: Concurrent Technologies Corporation and Office of the Secretary of Defense Office of Technology Transition. Amount: **\$305,000**. Started December of 2006.

System of Systems Engineering Center of Excellence: System of Systems Engineering Analysis. Sponsor: Concurrent Technologies Corporation. Amount: **\$354,000**. Started April of 2003.

A System of Systems Engineering Analysis of Integrated Port Security for the Virginia Port Authority. Sponsor: Virginia Port Authority. Amount: **\$47,500**. Completed December of 2003.

The University of Central Florida Modeling and Simulation Academic Initiative. Principal Investigation/Program Coordinator 1996 to 1998. Amount: **\$328,000/year**. Sponsor: The University of Central Florida. Initiative started July of 1996.

Proposal Development Grant: Proposal for the Creation and Development of The Edwin A. Link Simulation Education Institute. Amount: **\$15,000**. Sponsors: The Link Foundation. Started July of 1997. Completed February of 1998.

Intelligent Simulation Training System Project, Sponsor: State of Florida, Co-Principal Investigator. Amount: **\$300,000/year**. Started 1987. Completed June of 1997.

Workshop: *What makes a modeling and simulation professional?* Organized and managed workshop. Workshop was attended by 25 invited people from academia, industry, government, and the military from the U.S. and Europe. Workshop was held February 11-13, 1997 in Orlando. Amount: **\$30,000**. Sponsors: National Training Systems Association (NTSA) and NorthStar Institute. Final minutes and documents to be released in October 1997.

Task Analysis: OH58D Kiowa Simulator. Principal Investigator. Amount: **\$32,466**. Sponsor: U.S. Army-STRICOM. Started January 1994. Completed October 1994

Task Analysis for Fire Support-Combined Arms Tactical Training System. Co-Principal Investigator. Amount: **\$52,000**. Sponsor: Resource Consultants, Inc. Started June 1993. Completed November 1993.

Tiltrotor Simulations. Amount: **\$1,200**. Sponsor: EIES. Principal Investigator. Started December 1991. Completed April 1992.

Air Traffic Simulation System Design for Tiltrotor Aircraft Operations, Sponsor: NASA and FAA. Principal Investigator. Amount: **\$128,000**. Begun April 1990. Extended May 1991 with additional **\$58,000**. Completed September 1992.

PUBLICATION ACTIVITIES

28 publications including refereed journals, proceedings, and trade magazines.

(Complete list of publications available on request.)

EXAMPLE PUBLICATIONS

Rogers, Ralph V. with Paul Kauffmann, Keith Williamson. "ABET Accreditation: A Foundation for College Renewal and Strategic Planning." 2005 ABET Annual Meeting Proceedings. October 27-28, 2005. San Diego, CA.

Rogers, Ralph V. with Charles Keating, et. al. "System of Systems Engineering," Engineering Management Journal, Vol. 15 No. 3 September 2003, PP 36-42.

Rogers, R.V., with Guru Prasad and Benito Graniela. "Metamodeling Techniques for Federation Object Modeling (FOM) Design". Proceedings of the 1997 Spring Simulation Interoperability Workshop. Orlando, FL March 3-7, 1997.

Rogers, R.V., with Noemi Paz and William Leigh "Developing Knowledge for Maintenance Management Using Simulation." IEEE Transactions on System, Man, and Cybernetics, IEEE, April 1994, Vol 24, No. 4, pp 574-593.

Rogers, R.V. with K. Preston White. "Job-Shop Scheduling: limits of the binary disjunctive formulation." International Journal of Production Research. 1990, vol. 28, no. 12, PP 2187-2200.

Rogers, R.V. with K. Preston White. "Algebraic, Mathematical Programming, and Network Models of the Machine Scheduling Problem." IEEE Transactions on Systems, Man, and Cybernetics. May 1991, Vol. 21, No. 3. PP 693-698.

PRESENTATIONS

Over 100 presentations at conferences, assemblies, and public forums.

(Extended list of presentations available on request.)

EXAMPLE PRESENTATIONS

Rogers, R.V. "A Simulation Workshop Summary". Training System Technology Consortium Board of Director's Meeting. April 3, 1997, Kennedy Space Center, FL.

Rogers, R.V. "Simulation: A discipline without a home, a profession without a name." Keynote Address, Simulation Technology and Training Conference. March 17, 1997, Canberra, Australia.

Rogers, R.V. "What makes a modeling and simulation professional?: Results of the February 1997 Simulation Workshop." National Training Systems Association Spring Industry Roundtable, 11 March 1997, Washington, D.C.

Rogers, R.V. "The University of Central Florida Modeling and Simulation Academic Initiative." The 18th Interservice/Industry Training Systems and Education Conference. December 2-5, 1996, Orlando, FL.

Rogers, R.V. "What is a Simulationist?" Australian Defence Technology and Science Office. September 30, 1996, Melbourne, Australia.

Rogers, R.V. "Implementing Systems Simulation of C³ Systems Using Autonomous Objects." The 11th Conference of the Digital Avionics Systems Conference. October 5-9, 1992, Seattle, WA.

Rogers, R.V. "Autonomous Objects in Air Traffic Simulation Modeling." TIMS/ORSA Joint National Meeting, May 12-15, 1991, Nashville, TN.

Rogers, R.V. with R. Weiss. "Evolving VTOL Air Transportation and Operations Research: Needs and Opportunities." ORSA/TIMS Joint National Meeting, October 23-26, 1988, Denver, CO..

GRADUATE STUDENT RESEARCH SUPERVISED

- Two Ph.D. dissertations

- Improving Computational Efficiency of Discrete-Event Simulation of Autonomous Spatial Objects Through Dynamic Sectoring. by Major Gary Harless, U.S. Army. December 1995.
- Developing and Validating Knowledge for A Maintenance Supervisor Assistant System Using Object-Oriented Simulation. by Noemi Paz. August 1992.

- Eight master theses

- 19 Ph.D. dissertation and master thesis committees

TEACHING

(List of courses available on request.)

Taught over 40 different credit courses from introductory technology courses in electricity fundamentals to doctoral level courses in computer simulation and systems engineering.

Conducted industrial training programs in quality production soldering, principles of electronics, principles of programmable logic controllers, and product familiarization for production workers.

Conducted non-credit, contract training for engineers and division managers in systems engineering, computer simulation, and statistical analysis of simulation data.

Participated as one of eight IEMS faculty in a pilot project to implement Total Quality Management techniques and principles into classroom instruction. Specifically, my effort involved STA 3032 spring of 1992, EIN 5117 in the fall of 1992. The effort won IEMS Department the 1993 Davis Productivity Award from Florida Tax Watch.

EXAMPLE TEACHING AWARDS

Received \$5000 base pay increase award from University's Teaching Incentive Program for success and excellence in teaching. Award was selected by a peer review committee. 1996.

Named Outstanding Undergraduate Teacher for Industrial Engineering and Management Systems Department of 1992.

Achievement and Performance Award Increment (\$1000) for "demonstrated outstanding performance and identifiable achievements that have contributed significantly to the Industrial Engineering and Management Systems Department." September 1990.

CONSULTING

Indiana University-Purdue University Fort Wayne. Consulted on curriculum for Systems Engineering program development.

National Consortium for Technology in Business, Auburn University. Reviewed Martin Marietta production operations and developed material for use in engineering classroom courses.

Book reviewer for Prentice-Hall on topics of systems analysis and simulation.

Book reviewer for IEEE Press on simulation.

SERVICE

SERVICE TO THE PROFESSION

- Founding member of Engineering Dean's Council Steering Committee for Engineering Teaching Institutions
- Member of Visiting Certification Assessment Team for American Society of Engineering Management, 2005.
- Founding Member Implementation Group of the Modeling and Simulation Professional Certification Commission.
- Director of Professional Development for the American Society of Engineering Management, 2004 to 2005.
- Secretary for the Engineering Management Leadership Academic Council, 2004.
- Track Coordinator for 1999, 2001, 2002 Winter Simulation Conference and 2001 Summer Simulation Conference.
- Referee for IEEE Transaction on Systems, Man, and Cybernetics.
- Referee for Computers and Industrial Engineering.
- Referee for International Journal in Computer Simulation.
- Program Chair, spring of 1992. The Institute of Management Science/Operations Research Society of America's (TIMS/ORSA) Joint National Meeting. Organized, coordinated and scheduled over 1400 speakers.
- Member of the National Training Systems Association's Strategic Roundtable.
- Judge for Florida Engineering Society annual Florida Governor's New Product Award in 1995 and 1996.

SERVICE TO COMMUNITY

- Member, Greenville Morning Rotary International Club
- Member, Munster Rotary International Club

SERVICE TO GREENVILLE / PITT COUNTY, NORTH CAROLINA

- Search committee for Pitt County Director of Economic Development, spring of 2005.