Education	Ph.D., Compu University of Glasgow, S Dissertation Kuo B.Sc. with Hou University of Glasgow, S Stanford Exect Stanford Un Stanford, Ca	atational Fluid Dynamics, 1985 of Strathclyde Ecotland : <i>An active motion compensation system using multiple bodies</i> , Advisor: C. ns, Naval Architecture, 1978 of Strathclyde Ecotland Eutive Program, 1999 iversity alifornia
Professional	2014 - Pres	Founder and President (501c6 Non Profit)
Experience		OpenCommons, Portland OR
	2015 - Pres	Founder and CEO
		urban.systems Inc.
	2019 - Pres	UK Honorary Consulate to Oregon
		British Consulate
	2015 - Pres	Research Professor, Computer Science
		Portland State University, Portland OR
	2013 - 2015	Director, Research and Advanced Technology Development
	2004 2012	Intel Federal, Millsbord, UK Adjunct Professor, School of Rusiness
	2004 – 2013	Portland State University Portland OR
	2010 - 2013	Director, Government Research and Academic Programs
	2010 2013	Intel Corporation, Hillsboro, OR
	2008 – 2013	Director, Extreme Scale Programs
	2000 2010	Intel Labs, Hillsboro, OR
	2006 – 2008	GM Integrated Analytic Solutions
		New Business Initiatives, Intel Corporation, Hillsboro, OR
	2004 – 2006	Director of Strategy, Intel Architecture Group
		Intel Corporation, Hillsboro, OR
	1999 – 2004	Technology Director, Microprocessor and Systems Research
		Intel Corporation, Hillsboro, OK
	1997 – 1999	Technical Assistant, VP Desktop Products Group
	1005 1007	Intel Corporation, millisporo, OR Business Director, Internet and Communications Group
	1995 – 1997	Intel Corporation, Hillsborg, OP
	1002 1005	Director of Marketing and Application Development
	1992 - 1995	Supercomputer Systems Division, Intel, Beaverton, OR
	1001 - 1002	Vice President Product Development
	1991 1992	Meiko World Inc., Boston, MA
	1987 – 1991	General Manager
		Meiko Scientific, Arlington, VA
	1986 – 1987	Senior Naval Architect
		M. Rosenblatt and Son, Crystal City, VA
	1985 – 1986	North Sea Lecturer
		Glasgow University, Glasgow, Scotland
	1982 – 1985	Kesearch Program Lead
	1000 1000	University of Strathciyde, Glasgow, Scotland Sonior Naval Architect
	1980 – 1982	1 Ray McDermott New Orleans Louisiana
	1070 1000	Naval Architect
	1970 - 1990	J Ray McDermott, London, England

Board and	2019 – Pres.	Member of the Board			
Advisory		Technology Association of Oregon Foundation, Portland OR			
Roles	2016 – Pres.	Chair, Transportation Technology Working Group			
	0040 0040	NIST Global Community Technology Challenge			
	2010 – 2019.	Member of the Board of Trustees and Chair (2016-2018)			
	2006 2016	Member of the Board of Advisors			
	2000 - 2010.	Collaborative Software Initiative Portland OR			
	2004 – 2016	Member of the board of advisors			
	2001 2010.	NSF Science & Technology Center at OHSU/OGI			
		Center for Coastal Margin Observation and Prediction (CMOP)			
	2004 – 2016.	Member of the Technical Advisors Board			
		PeoplePower, Redwood City, CA			
	1999 - 2010	Member of the Board of Directors			
		DCS Corporation, Alexandria, VA			
Professional	2016	Founding Member and Current Chair (2016 - Pres)			
Society Roles		(ACM) Emerging Interest Group on Smart Cities and Communities			
	2011	Founding Member and First Advisory Board Chair (2011-2013)			
	2006	Association for Computing Machinery (ACM) SIGHPC			
	2000	Member			
	1985	Professional Engineer			
	1000	Commonwealth of Virginia			
	1985	Life Member			
		Society of Naval Architects and Marine Engineers, New York NY			
	1985	Member			
		Institution of Structural Engineers, London UK			
	1978	Life Member			
		Royal Institution of Naval Architects, London UK			
	1978	Chartered Engineer			
		Engineering Council, UK			
Research		Nanagement			
Interests	Public, Private, Academic Partnersnips Computer and Computational Science				
	Smart Citi	Computer and Computational Science			
	 Internet of 	Small Clies and Communities			
	Dynamic Runtimes for Parallel Computers				
	Intermediate Representations for Parallel Software				
	Domain Specific Languages				
	Scientific Programming Environments				
	Computer Architecture				
	Extreme Scale Systems				
	Dynamic Power Management				
	Over Provisioning and Locality Management				
	Software Engineering				
	 Community structure and tools for rapid software development 				
	 Replication a 	 Replication and Reproducibility 			

External Research Funding	 DARPA Ubiquitous High Performance Computing (UHPC): Intel and DARPA Collaborate on \$49M Research Effort in Extreme Computing, http://www.hpcwire.com/2010/08/10/darpa_sets_ubiquitous_hpc_program_in_mot ion/ DOE Advanced Scientific Computing Research (ASCR) XStack: http://science.energy.gov/ascr/research/computer-science/ascr-x-stack-portfolio DOE Exascale Supercomputer Interconnect Design Forward: \$25.4 million in research and development contracts to five leading companies in high- performance computing (HPC) https://www.nersc.gov/news-publications/nersc- news/nersc-center-news/2013/department-of-energy-awards-25-4-million-in- contracts-for-extreme-scale-supercomputer-interconnect-design/ DOE Exascale Supercomputer Processor Design Fast Forward: Intel awarded \$19 million for both processor and memory technologies http://www.hpcwire.com/2012/07/12/doe_primes_pump_for_exascale_supercomp
Publications Video and Press	 W. Pinfold, "Moderator: Electric - and Connected" <i>EV Roadmap</i> 9, Portland OR, July 20-21, 2015 S. Newberry, W. Pinfold, and M. Reich "Making Cities Smarter: A FutureTalk" <i>New Relic FutureTalks PDX</i>, May. 27th, 2015 https://youtu.be/aQl4Bwhhdcg W. Pinfold, "Keynote Address – Global Cities Challenge" <i>Road to Smart Mobility Workshop</i>, Hillsboro, OR, April 22, 2015 N. Carter, et al. "Runnemede: An architecture for ubiquitous high-performance computing." <i>High Performance Computer Architecture (HPCA2013), 2013 IEEE</i> 19th International Symposium 2013. http://acoma.cs.uiuc.edu/iacoma-papers/hpca13_1.pdf W. Pinfold Video: "Interview" <i>ACM/IEEE SC2013 Conference on High Performance Networking and Computing</i>, November 17-22, 2013, Denver, CO, USA; Interview https://youtu.be/aDwqG3JHtiE V. Sarkar, B. Chapman, W. Gropp, R. Knauerhase, T. Mattson, and W. Pinfold, "Open Community Runtime," https://01.org/projects/opencommunity-runtime. S. Borkar, W. Pinfold "Simulation Technology Marketplace" <i>DOE PI Meeting: Technology Marketplace Sessions</i>, May 28-29, 2014 https://xstackwiki.modelado.org/May 28-29_Technology Marketplace Sessions Inside HPC An Interview with Intel's Extreme Scale Computing Director, Wiff Pinfold, <i>Inside HPC</i>, January 13, 2012 http://insidehpc.com/2012/01/an-interview-with-intel-s-extreme-scale-computing-director-wiff-pinfold' M. Kanellos "At Intel, the chip with two brains" <i>CNET</i>, August 20, 2012 http://mww.cnet.com/news/at-intel-the-chip-with-two-brains/ W. Pinfold "On the challenges that face chip manufacturers who are working to improve the performance of computer chips" <i>Proceedings of The High Performance Computing Modernization Program Users Group Conference</i> June 20-23, 2011 Portland OR Inside HPC "Green HPC Podcast Episode 1: Sifting Through The Hype", Inside HPC Vodcast January 2011 http://insidehpc.com/green-hpc-podcast-series/green-hpc-podcast-episode-1-sifting-through-the-hype/ BiolT

 W. Pinfold Video: "Powerful Beyond Imagination" <i>Proceedings of the ACM/IEEE</i> <i>SC2006 Conference on High Performance Networking and Computing</i>, November 11-17, 2006, Tampa, FL, USA; <u>https://youtu.be/OgxtE2_37Us</u> J. Spooner "Intel looks to software to lift Itanium" <i>ZDNet</i>, April 26, 2001 <u>http://www.zdnet.com/article/intel-looks-to-software-to-lift-itanium/</u> A. Cataldo "Fiber weighed for chip interconnect" <i>EE Times</i>, October 12, 2001 <u>http://www.eetimes.com/document.asp?doc_id=1204372</u> W. Pinfold "Use of heterogeneous distributed memory parallel systems in image processing", <i>Proc. SPIE 1406, Image Understanding in the '90s: Building</i> <i>Systems that Work</i>, 132 (April 1, 1991); doi:10.1117/12.47976 W. Pinfold "An active motion compensation system using multiple bodies" PhD Thesis 1985 Quarterly reports for the UHPC, XStack, and Design Forward programs. 		
 Innovation and Entrepreneurship Ocean and Aeronautical Structures Naval Architecture FORTH for programming control systems Prototyping with Arduino 		
Active in the SC Conference series sponsored by ACM SIGARCH, ACM SIGHPC, and IEEE Computer Society in the following roles 2014 – 2015 HPC Matters Chair 2012 Vice Chair 2011 MasterWorks Chair 2009 General Chair 2008 Deputy General Chair 2007 Technical Program Liaison to Communications 2006 Communications Chair 1995 Research Exhibits Chair 1994 Technical Papers Reviewer 1993 Technical Papers Reviewer		
Open Community Runtime: https://01.org/projects/opencommunity-runtime FSIM: Traleika Glacier Architecture Simulator: https://xstack.exascale-tech.com/wiki/index.php/Intel_FSim OpenCV: http://www.eetimes.com/document.asp?doc_id=1182803 Margaret Foley "Home Control System Maupin Oregon: High Desert Drama" Oregon Home, January 10, 2012 http://www.oregonhomemagazine.com/homes/860-high- desert-drama this is a weekend home and it has microprocessor controlled hydronic heating and cooling system <u>http://www.wilfredpinfold.com/blog/</u> We have done similar work on our Portland home <u>http://www.houzz.com/photos/18222419/Alhambra-Kitchen-mediterranean-kitchen- portland</u> which has connected lighting, door access and heating. TAO Navy Tanker, <u>http://fas.org/man/dod-101/sys/ship/tao-204-rappahanock.jpg</u> DDG51 Destroyer, <u>https://en.wikipedia.org/wiki/USS_Arleigh_Burke#/media/File:USS_Arleigh_Burke_(D DG_51)_steams_through_the_Mediterranean_Sea.jpg</u> USS Corral Sea, <u>http://www.google.com/imgres?imgurl=https://upload.wikimedia.org/wikipedia/</u>		

commons/3/3f/CV-43_1981_DN-SC-93-00769.JPEG&imgrefurl=https:// en.wikipedia.org/wiki/USS_Coral_Sea_(CV-43)&h=2400&w=3004&tbnid=8G_17Pw_FajtFM:&tbnh=160&tbnw=200&usg=_plMrq E2DQ8y4gWvWHQQhNi40h0E=&docid=7vhbUSXsImEHJM&itg=1

Installation of the first Mudslide Structure in the Gulf of Mexico.

Flare Tower on Shell Fulmar A https://www.flickr.com/photos/75103060@N00/8707174881