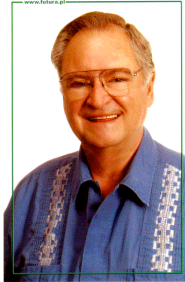


RESUME OF
RALPH COOLIDGE HUNTSINGER, Ph.D.

Time period: (1992 - 2007)



Birth Date: June 18, 1935

Home Telephone: +1 (530) 343-3456

E-Mail: drralph@huntsinger.net

E-Mail: drralph@csuchico.edu

E-Mail: drralph@wi.pb.edu.pl

E-Mail: drralph@humboldt.edu

USA Mobile Phone: +1 (530) 521-3456

USA FAX Number: +1 (530) 343-3556

Polish Mobil Phone: + 48 506 359 787

Current Positions

Emeritus Professor of Computer Science

Emeritus Professor of Mechanical Engineering and Manufacturing

Founder and Emeritus Director, the International McLeod Institute of Simulation Sciences (MISS)

College of Engineering, Computer Science, and Construction Mgmt.

California State University, Chico

Chico, California 95929-0410 USA

Professor of Computer Science (prof. dr inż. Informatyki) [on leave of absence]

Faculty of Computer Science (Wydział Informatyki)

Białystok Technical University (Politechnika Białostocka)

Software Engineering Department (Katedra Oprogramowania)

Division of Application Systems (Zakład Systemów Aplikacyjnych)

Northeast Poland

Wiejska 45A, 15-351 Białystok, POLAND

Adjunct Full Professor
Humboldt State University
The California State University System
Department of Computing Science
College of Natural Resources and Sciences
Arcata, California 95521-8299 USA

Professeur Associe' de Computer Science
INSA de ROUEN (Institut National de Science Appliquee)
Laboratoire au LITIS (Perception, Systeme et Information)
Mont Saint Aignan cedex F-76131
FRANCE

Professor Dr. Engineer of Computer Science and Simulation Sciences
State College of Computer Science
and Business Administration in Lomza
Panstwowa Wyzsza Szkola Informatyki
i Przedsiębiorczosci w Lomzy (PWSliP)
The Institute of Computer Science [on leave]
Poznanska 141B, 18-400 - Lomza, POLAND

President and Principal Engineer
Huntsinger and Associates, Consultants
Computer Simulation and Chemical Engineering
Licensed Professional Engineer (MT 2530E)
California & Montana USA, and Sorrento(Napoli) Italia

ACADEMIC HISTORY

School	Academic Field	Degree or Dates of Study
Santa Rosa Junior College Santa Rosa, California	Engineering & Chemistry	1955 Assoc. in Arts 9/53 to 6/55
University of California at Berkeley	Chemical Engineering	9/55 to 2/57

Montana State College Bozeman, Montana	Chemical Engineering	B.S., 1958 3/57 to 6/58
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Montana State College Bozeman, Montana	Major: Chemical Engineering Minor: Education	M. Sc., 1959 9/58 to 8/59
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University of California Davis, California	Advanced Study in Fluid Flow & Heat Transfer	Part Time 1961 - 1962
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Montana State University Bozeman, Montana	Major: Chemical Engineering Minor: Education and Psychology	9/64 to 8/66 Ph.D. , 1966
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Montana State University Bozeman, Montana	Major: Education Minor: Engineering and Psychology	11/64 to 12/65 Advanced to Candidacy for the Ed.D. , 04/66
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University of Calgary Calgary, Canada	Advanced Study on Computer Simulation of Oilfield Reservoirs and study on Computer Operating Systems	Fall 1978
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Professor Ralph C. Huntsinger, Ph.D.

Ralph C. Huntsinger Recent Professional Publications:

- (1) "Simulation Languages and Intelligent Simulation Environments, the Keys to Industrial Progress and Efficiency", Ralph C. Huntsinger, Symposium Internacional Sobre La Simulacion por Computadora en La Ingeniera Industrial y en Los Problemas de Desarrollo Urbano, Universidad Panamericana, November 1992, Mexico City D.F.
- (2) "An Investigation on Neural Network Capabilities as Simulation Metamodels," H. Pierreval and Ralph C. Huntsinger, Proceedings of the Summer Computer Simulation Conference; Reno, Nevada (July 1992).

- (3) "Simulation of Stationary Deterministic Loads Applied on Operating Wind Turbine Rotors," S. Dous, B. Gironnet, Ralph C. Huntsinger and A.M. Fayek, Proceedings of the Summer Computer Simulation Conference; Reno, Nevada (July 1992).
- (4) "A TUTSIM Simulation Model and Analysis of a High Speed Course Vehicle", F.P. Maturana and Ralph C. Huntsinger, Proceedings of the Summer Computer Simulation Conference; Reno, Nevada (July 1992).
- (5) "Simulation of Laminar Flow of a Power Law Fluid along a Vertical Wall using ESL on a microcomputer," P.D. Ariel and Ralph C. Huntsinger, Proceedings of the EUROSIM Simulation Congress; Capri, Italy (Sept. 1992).
- (6) "Simulation of Minimal Surfaces by Isovector Methods", K.L. Chowdhury and Ralph C. Huntsinger, Proceedings of the Summer Computer Simulation Conference; Boston, Mass. pp. 49-53 (July 1993).
- (7) "A Methodology for the Design of an Active Suspension System using EASY5/W", F.P. Maturana and Ralph C. Huntsinger, Proceedings of the Summer Computer Simulation Conference; Boston, Mass. pp. 86-90 (July 1993).
- (8) "Connecting an Expert System to a Simulation of a Complex Manufacturing System", K. White, Ralph C. Huntsinger and H. Pierreval, Proceedings of the SCSI Western Multiconference, International Conference on Simulation in Engineering Education; Tempe, Arizona (January 1994).
- (9) "Construction of a Class of Minimal Surfaces with ESL", K.L. Chowdhury and Ralph C. Huntsinger, Simulation Practice and Theory International Journal, Volume 2, pp. 17-26 , Elsevier Science B.V. (March 1994).
- (10) "A Conceptual Framework for Modelling and Simulation of Manufacturing Systems", N. Mebarki, J. Peyron and Ralph C. Huntsinger, Proceedings of the 1994 European Simulation Multiconference; Barcelona, Spain. (June 1994).
- (11) "Construction of a Class of Minimal Surfaces with ESL", K.L. Chowdhury and Ralph C. Huntsinger, Proceedings of the 1994 Summer Computer Simulation Conference; San Diego, California pp. 57-62 (July 1994).
- (12) "Continuing Education at a Distance via Satellite", R.E. Crosbie, Ralph C. Huntsinger, and K.N. Derucher, Proceedings of the International Conference

on Continuing Education in Engineering, Sao Paulo, Brazil (December 1994).

- (13) "Simulation of Minimal Surfaces by Isovector Methods", K.L. Chowdhury and Ralph C. Huntsinger, TRANSACTIONS of the Society for Computer Simulation, Volume 11, Number 3, pp. 159-177 (October 1994).
- (14) "Load Sharing and Resequencing in Nonhomogeneous Two Server Systems", H.D. Karatza and Ralph C. Huntsinger, Proceedings of the Second Conference of the UK Simulation Society, North Berwick, Scotland pp. 19-23 (April 1995).
- (15) Plenary Paper "The McLeod Institutes of Simulation Sciences Centres", Ralph C. Huntsinger, Proceedings of the Second Conference of the UK Simulation Society, North Berwick, Scotland pp1-9 (April 1995).
- (16) "Load Balancing and Resequencing in a Homogeneous Distributed System" H.D. Karatza and Ralph C. Huntsinger, Proceedings of the 1995 Summer Computer Simulation Conference; Ottawa, Canada pp. 790-794 (July 1995).
- (17) Plenary Paper "The Expanding Network of International Computer Simulation Centers; Past Progress and Future Promise", Ralph C. Huntsinger, Proceedings of the III Conference on Computer Simulation, Mexico City D.F. (November 1995).
- (18) "Optimal Control of Dynamic Systems Using Simulation Languages", K.E. Becker and Ralph C. Huntsinger, Proceedings of the 1996 Summer Computer Simulation Conference, Portland, Oregon , 5 pages (July 1996).
- (19) "A Simulation Methodology Description of Container Placement Using a Unique System to Control the Logistics" by M. Itmi, Ralph C. Huntsinger, P. Jarjoui, and J. Pecuchet, Proceedings of the Summer Computer Simulation Conference 2000, Vancouver, B.C., CANADA. July 2000.
- (20) "A Method for an Embedded Explanation Subsystem for Simulation Systems: A Proposal for an Intelligent Simulation Environment" by M. Itmi, Ralph C. Huntsinger, and J. Pecuchet, Proceedings of the Summer Computer Simulation Conference 2000, Vancouver, B.C., CANADA. July 2000.
- (21) "Pondering on a Self-Organizing All-Optical Routing System" by E.E.E. Frietman, Ralph C. Huntsinger, and D.G. Khoe, Proceedings of the Summer Computer Simulation Conference 2000, Vancouver, B.C., CANADA. July 2000.

(22) “Evolving a Software Package for Logistics Control and Resource and Process Allocation” by M.Itmi, F. Serin, and Ralph C. Huntsinger ,Proceedings of the 2002 Summer Computer Simulation Conference, July 2002, San Diego, Calif.

(23) Modeling and Simulation: Theory and Practice, Book section Chapter 12, "Simulation Languages and Applications" by Ralph C. Huntsinger, Editors: G.A. Bekey and B.Y. Kogen, Kluwer Academic Publishers, ISBN 1-4020-7062-4, (2003).

(24) “SimEd: A new Initiative in Simulation Education”, by R.E. Crosbie, Ralph C. Huntsinger, and S. Raczynski, Proceedings on the 2004 Western Simulation MultiConference International Conference on Simulation in Education, January 2004, San Diego, California.

(25) “An overview of the latest features of several powerful high-level continuous systems simulation software packages”, by Ralph C. Huntsinger, Proceedings of the International Conference on Computer Information Systems and Applications, Elk, POLAND, Volume 1, pp. 293-299, ISBN 83-87256-67-6. June 2004.

(26) “Toward an Agent Based Simulation of Multi-modal Transportation”, by M. Itmi, Ralph C. Huntsinger, F. Serin, and G. Faucon, Proceedings of the 2004 Summer Computer Simulation Conference, July 2004, San Jose, California.

(27) “New Developments in High-Level Continuous Systems Simulation Languages”, by Ralph C. Huntsinger, System Simulation and Scientific Computing, Vol. 1, pp. 41- 48, ISBN 7-5062-7841-3 (2005).

(28) “Blocking and Delay Factors in Open Series Queues”, by W. Oniszczyk and Ralph C. Huntsinger, Proceedings of the 2006 [SCS] Summer Simulation Multiconference, pp. 38-43, ISBN: 1-56555-309-8, July 2006, Calgary, Canada.

(29) “From Discrete Event Simulation to Agent Simulation: Reasoning and Explanation”, by M. Itmi and Ralph C. Huntsinger, Proceedings of the 2006 [SCS] Summer Simulation Multiconference, pp. 145-150, ISBN: 1-56555-309-8, July 2006, Calgary, Canada.

(30) “Modeling of Twin Cavity Interactions in Stochastic and Deterministic Models”, by R. Mosdorf , L. Zapolnik , and Ralph C. Huntsinger, Proceedings of the Conference on Modeling and Simulation – Methodology,Tools, Applications, pp. 22-27, ISBN: 1-56555-309-8, July 2006, Calgary, Canada.

(31) Proceedings of the January 2007 Western MultiConference on Computer Simulation, Edited by J. Anderson and Ralph C. Huntsinger, ISBN: 1-56555311-X, (206 Pages).

(32) “A HIERARCHICAL MODEL FOR TRANSPORT APPLICATION”,
ALSHABI W, ITMI M, ABDULRAB H, HUNTSINGER Ralph, Proceedings of the 7^{ième}
édition du congrès international pluridisciplinaire Qualita 2007 – Tanger (Maroc) Du
20 au 22 mars 2007.

(33) “Exploring the linearity of models on the basis of ranked data”,
L. Bobrowski, and Ralph C. Huntsinger, M&S-MTSA, Proceedings of the SCSC’07,
pp.411-418, ISBN 1-56555-316-0, San Diego, California, July 2007 .

Honor Societies and Professional Society memberships:

The Society of the Sigma Xi
International Scientific Research Society (Full member, 1959-present)
(Past President of two University Chapters)

Phi Delta Kappa
National Education Professional Society (member for over 20 years)

Society for Modeling and Simulation International [SCS]
Society Fellow and senior member (1966-present)

Upsilon Pi Epsilon
Honor Society for the Computing & Information Disciplines
Full member (1973-present)

Association for Computing Machinery, ACM
National Computer Science Society (member for over 25 years)

SIGSIM (ACM Special Interest Group on Simulation, member for over 15 years)

National Society for Professional Engineers, NSPE (member for over 20 years)

American Institute of Chemical Engineers, AIChE (member for over 35 years)

Ralph C. Huntsinger Professional Activities :

I was the Group Chair for the M&S-MTSA portion of the SCSC'07 conference in San Diego, California in July 2007 and also chaired two technical sessions.

I was the Plenary speaker for the third day of the 7^{ième} édition du congrès international pluridisciplinaire Qualita 2007 – Tanger (Maroc) 22 mars 2007.

I was the General Chair of the Conference on High Level Simulation Languages and Applications (HLSLA), a part of the [SCS] Western Simulation MultiConference, San Diego, California USA, January 2007.

I was a member of the 2006 Conference Committee and the Conference Registration Chair for CCSC – Eighth Annual Consortium for Computing Sciences in Colleges, Northwestern Conference – in cooperation with ACM-SIGCSE, held at Eastern Washington University USA, October 2006.

I was a member of the steering committee for the International Conference on Industrial Logistics ICIL in Kaunas, Lithuania June 2006. At the conference I gave three seminar presentations on Simulation applied to Logistics.

I was elected the International Vice President of ICIL (International Center for Innovation and Industrial Logistics (2006-2007) <http://www.iciil.org/>

I was the General Chairman for the International Conference on Modeling and Simulation – Methodology, Tools, Software Applications (M&S-MTSA), held in Calgary, CANADA, summer 2006.

In December of 2005 I gave lectures on Simulation Languages to the Computer Science Department, the Chemical Engineering Department, and the Mechanical Engineering Department at Addis Ababa University, Ethiopia (east Africa).

In November 2005, I was a keynote speaker for the 6th International Asia Simulation Conference in Beijing, CHINA.

In December of 2005, I gave lectures for the Korean Electric Power Research Institute in Tanjeon, South Korea also in December of 2005 I lectured at the Korean Advanced Institute of Science and Technology (KAIST) on computer simulation languages.

At the February 2005 International Conference on Industrial Logistics, I made the following presentation: “A Government Office Simulation Package that produces GPSS/H code”, by K. Bojko and Ralph C. Huntsinger.

I was elected the Vice President of ICIL, The International Center for Innovation and Industrial Logistics (2005-2008). //www.iciil.org/

During the International Conference on Industrial Logistics ICIL held in Montevideo, Uruguay in February 2005, I gave a two hour invited seminar on Continuous Systems Simulation Languages and Applications.

At the January 2005 SCS Western Simulation Multiconference held in New Orleans, Louisiana, USA, I gave two three hour invited tutorials on Continuous Systems Simulation and Applications.

At the July 2004 Summer Computer Simulation Conference in San Jose, California, I was the session chair for Modeling and Simulation Technology, Tools and Applications sessions 2 and 4.

During part of October and during November and December of 2003 I was a Visiting Professor of Computer Science (prof. dr. inż. Wydział Informatyki) at Białystok Technical University (Politechnika Białostocka) in the division of Application Systems (Zakład Systemów Aplikacyjnych) in northeast POLAND. During my visit I taught a 5th year computer science class in Optimization applied to Continuous Systems Simulation and also supervised a research group doing discrete systems simulation of local government agencies.

I was an “expert” (their terminology) consultant for (ESTEC) the European Space Agency Technical Center at Noordwijk, the Netherlands where I gave industrial seminars and worked on the (ATV) automated transport Vehicle during the fall of 2003.

Three seminars were given at ESTEC and I worked on the ATV mathematical model.

The duration of my stay at ESTEC was from September 2003 to October 2003.

The first seminar was on applied non-linear programming (sequential multi-parameter sequential optimization methods)

The second seminar was on a comparison of procedural and declarative programming languages using the Python and Prolog languages

The third seminar was on Continuous Systems Simulation Languages using the ESL (European Space Agency Simulation Language) and the ACSL-Extreme languages. Examples were shown in both languages.

My work on the ATV consisted of a complete analysis of the Mathematical Model for cargo accommodation (CAST). The approach used to solve the model was one of a few suitable for this type of optimization problem.

A mixed integer programming (MIP) package from IBM was used that was appropriate for the problem to be solved. The program was run in stages with a manual iteration between each partial run.

At the July 2003 Summer Computer Simulation Conference in Montreal, CANADA I was the Group Co-Chairman for the Simulation Methodologies and Tools Group and I chaired two technical sections.

At the 2002 Summer Computer Simulation Conference held in San Diego, California, I was the group chair for the Modeling and Simulation track. There were 40 papers in my track that I obtained reviewers for, and I coordinated the papers into sessions and obtained the session chairs.

In November of 2002, I was the co-chairman of the international program committee for the 5th International Asian Conference on System Simulation and Scientific Computing (Shanghai, PRC).

I gave an invited tutorial for conference members and senior students from Shanghai Technical University on “Simulation Languages and Applications”, and I was the chair of two technical sessions at the conference.

The conference organizers also presented me with a bronze and velvet plaque recognizing me as an “International Simulationist of Note” (rough translation from the Chinese).

At the 2001 European Simulation Multiconference held in Prague, the Czech Republic in June of 2001, I was the chair for three technical sessions, (“Simulation of Processes I”, “Simulation of processes II”, and “Traffic Simulation II”) each session contained four papers.

At the 2000 Summer Computer Simulation Conference in Vancouver B.C., CANADA I was the Group Chairman for the “Simulation Methodologies Group” and organized eleven sessions of four papers each and I obtained the session chairs for all of these sessions.

In the fall of 1999 I was a visiting professor and was also appointed as an Adjunct Professor of Computer Science at the INSA de ROUEN (Institut National de Science Appliquee) Laboratoire PSI (Perception, Systeme et Information) Mont Saint Aignan cedex F-76131 FRANCE

I was reappointed as an adjunct professor at INSA-ROUEN in 2002.

In November 1999 I was a member of a Ph.D. examination committee in the Computer Science department at the State University of Ghent, BELGIUM. The Ph.D. candidate did an excellent job on his thesis and was passed with highest distinction.

From September 1998 to January 1999 , I was a Professeur Invite' at the Universite' de Technologie de Troyes, FRANCE. I did research in the Industrial Engineering Department and developed and taught a regular course in Industrial Logistics.

This is a new topic that I teach now.

The research that I did there resulted in an accepted paper given at the European Simulation MultiConference held in Warsaw POLAND in June 1999. Our paper was published in the proceedings of the Conference.

In December of 1998 I was an invited speaker for the seminar series of the Department of Computer Engineering at the University of Hamburg, GERMANY. I gave an overview lecture on High Level Computer Simulation Languages.

Also in December 1998 I gave lectures during the "English Week" within the Industrial Engineering department at INSA-LYON, the technical university in Lyon, FRANCE.

In January of 1999 I did some consulting work in the area of Computer Simulation for the "Air Support" simulation company in Naples, ITALY.

From the end of January 1999 to the first week in April 1999, I was a Visiting Professor of Industrial Engineering at the University of Genoa, ITALY. I lectured at both the main Genoa campus and at the Campus at Savona, ITALY. While I was there I gave seminars on simulation of manufacturing production systems. I also taught seminars on Continuous Systems Simulation of Mechanical Engineering systems.

In January of 1998 I attended the 1998 Western Multiconference in San Diego, California. This is one of the main conferences of the Society for Computer Simulation International.

I am a member of the Board of Directors, a member of the past Presidents council, and a member of the Conference Board of Directors. I attended and was a part of the following SCS meetings at that conference: Executive Committee meeting, Membership board meeting, Conference Board meeting.

I was a member of the Medical Sciences Simulation Conference Panel on "Deterministic Modeling" and I was a Session Chairman.

At the 1998 Summer Computer Simulation Conference held in July 19-22, 1998 in Reno, Nevada USA , I was the Group Chair for Simulation Languages and Environments as well as the Group Chair for Simulation Methodologies. at the same conference I was the Session Chairman for Simulation in Modelica and the Session Chairman for Analysis of Model Quality.

Preceding the Conference was the Center Directors Meeting for the International McLeod Institute of Simulation Sciences which I was the Chair of and the director of the meeting.

The Senior Vice President of the Society for Computer Simulation reappointed me as the International Director/Coordinator of the Institute through July of 1999 and the SCS President and Senior Vice President gave me the title of "Founder" of the International McLeod Institute of Simulation Sciences (MISS).

In February of 1998 I was a visitor at the Universidad Panamericana in MEXICO City D.F. where I gave lectures on Expert Systems and the Prolog programming language. I also gave lectures on Discrete System Simulation and lectures on Continuous System Simulation Languages.

At the PTSK Polish Society for Computer Simulation Conference held in Jelenia Gora, Poland in October 1998, I gave a plenary session on "High Level Simulation Languages at V Warsztatow Naukowych, Polskiego Towarzystwa Symulacji Komputerowej, Jelenia Gora ,October 7-9, 1998 Poland.

During July and August of 1998, I taught a regular course on Discrete Systems Simulation and Queuing theory to sixty five students at the University of Calgary, CANADA.

At that time I started the paperwork for the joint CSU, Chico-Calgary, CANADA joint Ph.D. program in Computer Science.

In July 1996 I was reappointed the International Director of the McLeod Institute of Simulation Sciences (MISS) for the term 1996-1998. There are currently 20 International MISS centers in 13 different countries.

In May 1996, I was elected to a two year term as a member of the Board of Directors of the Society for Computer Simulation International.

At the 1996 Summer Computer Simulation Conference in July at Portland, Oregon, Canada I was the Conference group chairman for Simulation Methodologies and I was the chair of two technical sessions.

At that same time I was chair of the Annual meeting of the International Centers of the McLeod Institute of Simulation Sciences.

At the 1996 European Simulation Symposium held in October 1996 in Genoa, ITALY, I gave an invited Tutorial on Modeling and Simulation using high level Simulation Languages and was the chairman of two technical sessions..

Member of the National Institutes of Health Multidisciplinary Sciences Special Emphasis Panel - Special Study Section to review the National Simulation Resource for Circulatory Mass Transport and Exchange at the University of Washington Bioengineering school. The site review visit was in November 1996 in Seattle, Wash.

At the 1996 European Simulation Multiconference held in Budapest, HUNGARY in June 1996, I gave an invited seminar and tutorial on Continuous and Discrete High Level Computer Simulation Languages. I also opened the Hungarian Center of the McLeod Institute of Simulation Sciences with an official ceremony.

In late June of 1996 I gave invited lectures on Expert Systems and Computer Simulation to the Department of Industrial Engineering in the Technological University at Troyes, FRANCE.

During July and August of 1996 I was a visiting Professor at the University of Calgary, CANADA and gave a graduate seminar on Continuous Systems Simulation and a course on Discrete Systems Simulation and Queuing Theory.

I was a member of the Scientific Program Committee and Chair of the program subcommittee for technical tutorials as well as chair of the software exhibition committee for the Third International Conference for Industrial Logistics that was held in the third week of June 1997.

I was also the Vice-President of the International Society for Industrial Logistics.

At the World Simulation Congress held in SINGAPORE in September 1997, I was the Chairman of the Technical Group on Simulation Methodologies and Tools. I was also a member of the World Congress International Program Committee.

I was a member of the Scientific Program Committee for the European Simulation Multiconference held during the first week in June 1997 in Istanbul, TURKEY. I was also a chair for technical sessions at that conference. At that conference I was invited to give a tutorial on Expert Systems applied to Computer Simulation.

I was a Member of the National Institutes of Health special study section group to evaluate

the National Micropopulation Simulation Resource at the University of Minnesota, Health Computer Sciences. The NIH group did a site review visit to Minneapolis, Mn. in November 1995.

At the Board of Directors meeting of the Society for Computer Simulation International held in Summer 1992, I was elected the SCS Vice President for Publications for a two year term. As V.P. Publications, I was responsible for the monthly technical journal SIMULATION and the quarterly SCS TRANSACTIONS publication as well as books and all other non-periodical publications of the Society for Computer Simulation International. In this position, I was the Chair of the SCS Publications Board and coordinated and set policy for the Editors and Associate Editors of all SCS publications.

In 1994 I was reappointed an Adjunct Professor of Mechanical Engineering at the University of Calgary, CANADA. In addition I was been reappointed an Adjunct Professor of Computer Science at the University of Calgary and the two appointments were held concurrently. I am associated with research projects and curriculum and course development in both departments. I am connected to the University of Calgary computer network from Chico as a result of my appointments in the Manufacturing Engineering Division of the Mechanical Engineering Department and in the Computer Science Department.

I was the one U.S.A. member of the Scientific Committee of the EUROSIM '92 Simulation Congress held on Capri, ITALY, fall 1992. In March of 1992 I visited IRSIP - CNR , The Italian National research Institute in Napoli, ITALY and gave invited lectures on Continuous Systems Simulation and the European Simulation Language (ESL).

For the 1992 Summer Computer Simulation Conference held in Reno, Nevada, I was the Group Chairman for Simulation Methodology. Also for the 1992 Western Multiconference of the Society for Computer Simulation, I was the Chairman and coordinator of the Tutorial Track on Simulation Languages and Software Tools. I was the vice chairman of the SCS conference board for professional development seminars and had served in this capacity since 1986.

I was responsible for the arrangements that allowed Dr. H.L. Pierreval to be a visiting research Adjunct Professor in the College of Engineering, Computer Science, and Technology for the academic year 1991- August 1992, paid for by a grant from the Government of FRANCE.

During the summer of 1992, I taught special summer courses in Discrete Systems Simulation and in Numerical Methods Programming as well as

working on research projects within the Manufacturing Engineering Division of the Mechanical Engineering Department at the University of Calgary, CANADA.

I was the session chairman for "Simulation Environments" at the 1993 Summer Computer Simulation Conference (SCSC) held in Boston, Mass. during July 1993.

I was the General Program Chairman for the "Simulation Methodologies" Conference which is part of the SCSI European Simulation Multiconference held in Barcelona, SPAIN during June 1,2,3, 1994.

At the Executive Committee meeting of the Society for Computer Simulation International at the 1993 SCSC in Boston, I was given responsibility for all SCSI publications and Editors for the year July 1993 to July 1994.

During June and July of 1993, I was a consultant to the European Space Agency, the European Space Operations Center, in Darmstadt, GERMANY. While there, I gave seminars on "MultiParameter Sequential Optimization Methods" and on "Expert Systems and the Prolog AI programming language". In addition, I worked on the ESOC Position and Environment Satellite model using ESL (the European Simulation Language).

The European Simulation Symposium ESS'93 was held October 25-28, 1993 at the Delft University of Technology, The NETHERLANDS At this Symposium I was a member of the International Program Committee and participated as a paper reviewer for the Symposium.

I received a grant from the Belgium National Science Foundation to attend and to give a presentation at the official inauguration of the SCS European Simulation Chair that took place on Oct. 11, 1993 at the University of Ghent, BELGIUM. I also gave a lecture on Continuous Systems Simulation Languages at the "SimFormatics" program held in Ghent, BELGIUM during the same week.

During October 1993, I gave a lecture on Continuous Systems Simulation Languages at the Delft University of Technology, The NETHERLANDS, for the Dutch BeNeLux Simulation Society.

In November of 1993 I was the Associate General Program Chair. of the 1993 International Simulation Technology Multiconference (SIMTEC'93) which was

held in San Francisco, Calif. The tracks that I coordinated were: Aerospace, Simulation Applications, Life Sciences, Mission Earth Activity Symposium, and Emerging Software Technologies.

At the 1994 Summer Computer Simulation Conference that was held in San Diego, California July 18-20, 1994, I was the Group Chair for the "Simulation Methodologies" track and was the session chair for Performance Analysis and Databases in Simulation.

I was a member of the International Program Committee for the Fourth International Workshop on Computer Aided Systems Technology "CAST'94", held at the University of Ottawa, CANADA May 16-20, 1994.

At the SCSI European Simulation Symposium '94 held in Istanbul, TURKEY on October 10-13, 1994, I was the Associate Track Chair for Advances in Methodology and Practices (Advanced Modeling, Experimentation, Etc.) and a member of the International Program Committee.

The First Joint Conference of International Simulation Societies - CISS was held at ETH-Zurich, SWITZERLAND on August 22-25, 1994. At this conference, I was a Co-Chair for the Simulation Methodology and Tools Topic Area and a member of the International Program Committee.

In January and February 1994, I was a visiting research professor at the University of Lyon-1, FRANCE.

During March, April, May, and part of June 1994, I was the Technical Research Director for the Istituto per la Ricerca sui Sistemi Informatica Paralleli, Consiglio Nazionale delle Ricerche (IRSIP-CNR) in Napoli, ITALY.

During June 1994 I visited the Institute for Fundamental Technological Research of the Polish Academy of Sciences in Warsaw and gave seminars on Computer Simulation of Dynamic Systems. During this trip I also visited the Krakow Institute of Mining and Metallurgy and gave a seminar on Continuous Systems Simulation Languages and Applications. In Mielno, POLAND I was the plenary speaker for the meeting of the Polish Society for Computer Simulation. The topic of my speech was "High Level Simulation Languages and Intelligent Simulation Environments: The Keys to Industrial Progress and Efficiency".

During the last of June and the first part of July 1994, I was a visiting professor at the European Space Operations Center (ESOC) of the European

Space Agency in Darmstadt, GERMANY. I gave a week long course for ESOC staff on Numerical Methods Programming.

In July I was the Group Chair for Simulation Methodology at the 1994 Summer Computer Simulation Conference in San Diego, California. At that meeting, I also met with all the local directors of the Centers of the McLeod Institute of Simulation Sciences. During that time the Board of Directors of SCSI met and I was reappointed as International Director of all the McLeod Institute Centers for two more years.

In July and August of 1994 I taught courses on Discrete Systems Simulation and Queuing Theory, and on Dynamic System Simulation Languages and Applications at the University of Calgary, Calgary CANADA.

During the first week of August 1994, I was a visitor at the Computer Science Department at the University of Edinburgh, SCOTLAND, U.K. where I formed a new center of the SCSI McLeod Institute of Simulation Sciences.

At the Zurich, SWITZERLAND World Conference of International Simulation Societies (CISS) at the end of August 1994, I was the chair of two technical sessions and introduced the plenary speaker. I was a member of the Conference Scientific Program Committee and assisted in the conference planning.

In November of 1994 I gave invited lectures at the Parallel Computer Systems Institute (IRSIP) of the Italian National Research Council (CNR) in Naples, ITALY. At that time I was also an advisor for the proposed creation of a Master of Science Graduate program in Parallel Computer Systems and Simulation Science to be given by IRSIP-CNR in 1996-1997.

During January of 1995 I was a Visitor at the Aristotle University of Thessaloniki in GREECE at the Department of Informatics (Computer Science). While there I worked on the computer simulation of parallel systems.

During March and April of 1995 I was a Visiting Professor at the Department of Methodes Informatiques a la Gestion, University Claude Bernard - University Lyon 1, Villeurbanne, FRANCE. There I worked with graduate students on discrete systems simulation of manufacturing systems.

At the 1995 Summer Computer Simulation Conference in July at Ottawa, Ontario, Canada I was the Conference group chairman for Simulation Methodologies and I was the chair of two technical sessions.

At that same time I was chair of the Annual meeting of the International Centers of the McLeod Institute of Simulation Sciences.

I was the invited speaker for the Sesión Plenaria at the III Conferencia Internacional sobre la Simulación por Computadora held in November 1995 at IBM Mexico headquarters in Mexico City D.F., MEXICO. This conference was hosted by the Universidad Panamericana, Escuela de Ingeniería. My Plenary speech was printed in the conference proceedings.

Ralph C. Huntsinger Professional contributions:

The Society for Modeling and Simulation International [SCS] Past President, (Vice President Research, Education and Academic Affairs 1990-1992) (Vice President Publications, 1992-1994) (Elected Member at Large of the International Board of Directors, 1996-1998) (Elected Society Historian and voting member of the SCS International Board of Directors, 1998-present)

International Director of the McLeod Institute of Simulation Sciences (MISS) of The Society for Computer Simulation International. (1984-1998)

Associate Editor, Software Engineering, of the technical journal SIMULATION (1991-1992)

Associate Editor, Chemical and Mechanical Engineering, of the technical journal SIMULATION (1992-2002)

Associate Editor, Journal of Computational and Applied Mathematics, Elsevier Science Publishers B.V., North-Holland (1992-1999)

Associate Editor, International Journal in Computer Simulation, Ablex Publishing Corporation, New Jersey (1993-1998)

Associate Editor, Transactions of the Society for Computer Simulation (1996-1999).

Editorial Board, Transactions of the Society for Computer Simulation. (1984-2000).

Scientific Advisory Board, Advances in Simulation, Springer-Verlag Publishers (1989-2002)

Ralph C. Huntsinger External ACADEMIC APPOINTMENTS

INSTITUTION	POSITION	DATE
University of Calgary Calgary, Alberta, Canada Computer Science	Visiting Professor	1978 - 1981
University of Calgary Calgary, Alberta, Canada Computer Science	Adjunct Professor	1981 - June 2004
University of Calgary Calgary, Alberta, Canada Mechanical Engineering Manufacturing Engineering Division	Adjunct Professor	1989 - June 1997
Professeur Associe' de Computer Science INSA de ROUEN (Institut National de Science Appliquee) Laboratoire PSI (Perception, Systeme et Information) Mont Saint Aignan cedex F-76131 FRANCE		2001-2006
Adjunct Full Professor Humboldt State University Department of Computing Science Arcata, California USA		2006 -2011
Visiting Professor of Computer Science (prof. dr inz. Wydzial Informatyki) at Bialystok Technical University (Politechnika Bialostocka) in the division of Application Systems (Zaklad Systemow Aplikacyjnch) in northeast Poland Wiejska 45A, 15-351 Bialystok, POLAND		(2003)

Ralph C. Huntsinger

INDUSTRIAL CONSULTING CONTRACTS AND INDUSTRIAL SEMINARS
COMPANY DATES

European Space Agency	1992
European Space Operations Centre (ESOC) Simulation Systems Section	1993
Flight Control Systems Dept.	

Darmstadt, GERMANY 1994

Ontario Hydro 1992
Electrical and Controls Dept.
Toronto, Ontario, CANADA

IRSIP - CNR
Italian National Research Institute 1994, 1995
Naples, ITALY

European Space Agency (ESA)
ESA Technical Center (ESTEC) 2003
Noordwijk, the NETHERLANDS

President and Director 2004 - 2005
Productility srl Simulation Center of Excellence
PRODUCTILITY Societa di consulenza aziendale srl
Milano e Napoli, ITALIA

Ralph C. Huntsinger Teaching:

I have taught a wide selection of courses at CSU, Chico

Courses taught include:

Computer Science (Csci)

Csci 54 Introduction to Applications Programming with BASIC

Csci 50 Scientific Programming with FORTRAN and Pascal

Csci 10 Computer Literacy with programming in Python and JavaScript

Csci 53 Survey of Computer Languages (Algol, PL/I, Modula-2, C, Fortran, Ada)

Csci 110 The Computer's Impact on Society

Csci 122 Machines, Brains, and Minds

CSCI 123 Language, Intelligence, and Computation

PHIL 132 Machines, Brains, and Minds

Csci 165 Numerical Methods Programming

Csci 222 Expert Systems and Prolog programming

Csci 225 Continuous Systems Simulation Languages and Applications

Csci 227 Discrete Simulation Systems and Queuing Theory

Csci 325 Sequential Optimization Techniques in Computer Simulation

MECHANICAL ENGINEERING 253 Pollution Control Equipment Design

MECHANICAL ENGINEERING 257 Heat Transfer (Conduction, Convection,
Radiation)

MECHANICAL ENGINEERING 370 Computer-Aided Design of Dynamic Systems

In addition I have been the Graduate Advisor and Coordinator for the Master of

Science degree programs in Simulation Science and in Computer Simulation.

I was the Graduate Coordinator and Graduate Advisor for the Computer Science Department.

Ralph C. Huntsinger

AREAS OF SIGNIFICANT TRAINING
AND TECHNICAL COMPETENCE

1) Computer Science

a) Programming Languages

- | | | | |
|---------------|------------|------------------|----------------|
| 1) ALGOL-60 | 6) Pascal | 11) Q-BASIC | |
| 2) FORTRAN 77 | 7) SNOBOL4 | 12) PROLOG | 16) Python |
| 3) FORTRAN 95 | 8) PL/I | 13) ICON | 17) HTML |
| 4) Ada | 9) FORTH | 14) MODULA-2 | 18) JavaScript |
| 5) APL | 10) C | 15) Chico-Solver | 19) HLA |

b) Digital Simulation Languages

Continuous Systems Simulation:

- 1) CSSL-IV (Continuous Systems Simulation Language 4)
- 2) DSL/VS (Dynamic Simulation Language, IBM)
- 3) ACSL (Advanced Continuous Systems Simulation Language)
- 4) TUTSIM (Block Oriented Language for PC's)
- 5) EASY5W (Engineering Analysis System 5 by Boeing Co.)
- 6) PC-ESP (PC-Engineering Simulation Program, IBM)
- 7) DESIRE (Direct Executing Simulation Language in Real Time)
- 8) ISIM (Interactive Simulation Language for the PC)
- 9) DARE-P (Differential Analysis Replacement - Portable)
- 10) CSSL-III (CDC Original Version of CSSL-IV)
- 11) ESL (European space agency Simulation Language - Versions 5 and 8)
- 12) ADSIM (Applied Dynamics Simulation Language)
- 13) CSMP-III (Continuous Systems Modeling Program, IBM)
- 14) 1130 CSMP (Block Oriented Language by IBM)
- 15) SYSL/M (System Simulation Lang: CSMP-III on the PC)
- 16) CAMP (Computer Aided Modeling Program)
- 17) MARVES (Marshal Vehicle Engineering Simulation System, NASA)
- 18) HSL (Hytran Simulation Language, Electronics Assoc., Inc.)
- 19) MIDAS (Modified Integration Digital Analog Simulator)

- 20) MIMIC (Simulation Lang. Developed at Wright Pat. A.F.B.)
- 21) RGEF (Dupont Engin. Simulation Prog.)
- 22) SL-I (Simulation Language One)
- 23) PSI (Block Oriented Control Systems Lang. from Delft Univ. of Technology)
- 24) SICOS (Siemens Company Simulation of Continuous Systems)
- 25) XANALOG (ICON Oriented Simulation Lang. with Iconic Graphics)
- 26) BEDSOCS (Bradford Educational Simulation of Continuous Systems)
- 27) DYNAMO (System Dynamics Modeling Program)
- 28) NAVSIM (U.S. Navy Version of CSSL-III)
- 29) ENPORT (Linear Systems Bond Graph Analysis Program)
- 30) EZQ (PC and Apple II Block Diagram Simulation Program)
- 31) COSMOS (Continuous and Discrete Systems Modeling Program from the Netherlands)
- 31) PASION-CMG (Continuous Model Generator by S. Raczynski)
- 32) 20-SIM (Block Diagram Simulator from the Univ. of Twente Controls Lab.)
- 33) SIMULINK (from The MATH WORKS Inc. - MATLAB)
- 34) Modelica / Dymola

Discrete Systems Simulation:

- 1) GPSS-V (General Purpose System Simulator, IBM)
- 2) GPSS/H (Wolverine Software Version of GPSS-V)
- 3) SIMULA (Norwegian Computer Center Language)
- 4) DEMOS (Discrete Event Modeling on Simula)
- 5) SLAM-II (Simulation Language for Alternative Modeling)
- 6) GPSS-FORTRAN (Univ. of Erlangen-Nuernberg Development)
- 7) SIMSCRIPT-II.5 (CACI High Level Simulation Language)
- 8) PASSIM (Pascal Simulation Language from Wala Wala Univ.)
- 9) SIMPLE_1 (PC Based Discrete Systems Simulation Language)
- 10) Q-GERT (Queueing Graphical Evaluation Language)
- 11) Sim++ (Time Warp language by Jade Simulations International)
- 12) GPSS-PC (GPSS version by Minuteman Software Inc.)
- 13) PASION (Pascal based Process and Event-Oriented language)
- 14) QMS (Queueing Modeling System)
- 15) PSM++ (General Simulation Language from Universidad Panamericana)
- 16) BLUESSS (High level simulation language developed by Dr. S. Raczynski)

c) Mathematical Modeling of Engineering Systems

d) Computer Analysis of Continuous and Discrete Dynamic Systems

e) Applied Numerical Methods for Digital Computation

f) Multiparameter Optimization Theory (Applied Nonlinear Programming)

I have had extensive experience in optimization in teaching, research, and industrial consulting. I have taught optimization courses at several different universities and have had many consulting jobs that involved optimization. I have published several papers in the optimization of simulation projects. I have also taken industrial short courses in optimization to increase my expertise in this area.

g) Expert Systems (Knowledge Engineering)

2) Chemical Engineering and Mechanical Engineering

a) Heat Transfer (Conduction, Convection, and Radiation)

b) Mass Transfer (Gas Absorption processes)

c) Saline Water Conversion Processes

d) Pollution Control Equipment Design

3) Chemistry

a) General Inorganic Chemistry

b) Quantitative Analysis

c) Instrumental Methods of Chemical Analysis

The McLeod Institute of Simulation Sciences (MISS)

The Society for Modeling and Simulation International [SCS]

<http://www.ecst.csuchico.edu/~mcleod/>

SCS International MISS Founder and Director Emeritus: Ralph C. Huntsinger

There are over Twenty Centers of the McLeod Institute of Simulation Sciences. Almost all Twenty+ Centers of the McLeod Institute of Simulation Sciences were founded by Ralph C. Huntsinger.

I also serve as the Historian and as a voting member of the board of directors of the Society for Modeling and Simulation International [SCS].

I was also an associate editor of the International Journal SIMULATION for

Chemical and Mechanical Engineering.

I am the Associate Director of the University of Calgary McLeod Institute of Simulation Sciences.

I was an Adjunct Professor in the Computer Science Department at the University of Calgary, Canada for 25 years.

I participated in teaching and research at the U of C in Alberta, Canada.

During the summers of 2000 , 2001, 2002 and 2003 , I taught Discrete systems simulation and a course on computer programming languages.

Through my company “Huntsinger and Associates”, I continue my consulting in the areas of Pollution Control Equipment Design and Engineering Heat Transfer Analysis.

I have renewed my state registration as a Professional Engineer in Montana USA (registration number 2530E, valid through June 2008)

I am the Principal Second Clarinet in the Chico Community Band. I also serve as the Band Vice President as it is a Chico CARD activity

During the Spring Semester 1998 at CSU Chico, I taught the special General Studies theme course on Computer Languages, Natural Languages, and Artificial Intelligence (Csci 123 Language, Intelligence, and Computation) within the Csci department.

I did all of the computer lab work myself with two sections of students.

Also during the spring semester 1998, I served on a special committee for the Graduate School and was also a member of the graduate council.

I served as a member of the CSU,Chico University level research grants committee and reviewed many proposals by faculty members.

I serve as the director emeritus of The McLeod Institute of Simulation Sciences (MISS) within the College of Engineering, Computer Science, and Technology at CSU, Chico California.

In addition I am a Graduate Advisor and Co-Coordinator for the Master of Science degree programs in Simulation Science and in Computer Simulation at CSU, Chico.

I served as the Graduate Coordinator and Graduate Advisor for the Master of Science degree program in the Computer Science Department.

In this position I coordinated the Satellite Education Network remote M.S. Computer Science program at CSU, Chico California.

I am the President of the Emeritus and Retired Faculty Association (ERFA), California State University, Chico USA (2006-2008).