CURRICULUM VITAE

PERSONAL:

Name:	van Oers, Willem Theodorus Hendricus	
Permanent address:	#301-1030 Quebec Street Vancouver BC Canada V6A 4K8	(604) 736-8701
Business address:	Department of Physics and Astronomy University of Manitoba Winnipeg MB Canada R3T 2N2	(204) 474-9617
	TRIUMF 4004 Wesbrook Mall Vancouver BC Canada V6T 2A3	(604-222-1047 X6151)
Place of Birth:	Amsterdam, The Netherlands	
Marital status:	Married, 2 children	
Wife's name:	Keuss, Margaretha Elisabeth Maria	
Children:	Nicolai Stanislas Cyrille (son) Geneviève Brigitte Odile (daughter)	

EDUCATION:

1940-1946	Elementary school	St. Theodorus School, Amsterdam
1946-1951	High school (HBS-B)	St. Ignatius College, Amsterdam
1951-1959	University	University of Amsterdam, Amsterdam
	Candidate examination	11/01/1955
	Doctoral examination	09/23/1959
	Graduation Ph.D	05/15/1963

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

1. American Physical Society
2. Canadian Association of Physicists
3. Sigma Xi

CAREER DESCRIPTION

Undergraduate and Graduate Education

I received my higher education at the University of Amsterdam, Amsterdam, the Netherlands. After passing the "candidaats" examination in 1955 I started working at the Institute for Nuclear Physics Research (IKO) in Amsterdam on various projects in low energy nuclear physics. I passed the "doctoral" examination in 1959 and obtained a doctorate in mathematics and physics from the University of Amsterdam in 1963. Research efforts during those years centred around few-nucleon systems, scattering and reactions, using a 26 MeV synchrocyclotron [26 MeV deuterons, 52 MeV alpha-particles, and from 1965 51 MeV protons]. After the passing of my father in 1953 I ran simultaneously a retail business to provide income for the rest of the family.

Postdoctoral Research

In 1964 I left the Institute for Nuclear Physics Research to take up a position as assistant research physicist at UCLA. Continued to work on few-nucleon systems using the proton beams provided by a 50 MeV sector-focused, spiral ridge, cyclotron. Published an elaborate phase shift analysis of proton-deuteron elastic scattering data. Together with the late John Seagrave of LAS, now LANL showed the existence of the anomalous effective range expansion for the doublet spin state of the N-d system (sometimes referred to as the "van Oers – Seagrave" formula). Even after 40 years the n-d and p-d systems are still in the forefront of experimental and theoretical research partly due to the intricacies of the Coulomb interaction (in the p-d system) but most importantly due to the presence of genuine three-body forces. Also developed with Richard F. Carlson, of the University of Redlands, a technique of accurately determining total reaction cross sections in the low energy regime using an attenuation method (accuracy attainable better than 2%).

Teaching

I started giving formal lectures in 1965 as an acting-assistant professor at UCLA. I accepted a position as associate professor at the University of Manitoba in 1967 and was promoted to professor of physics in 1974. In addition to guiding a number of graduate students at UCLA, I supervised some 20 students towards obtaining their MSc or PhD degree while at the University of Manitoba.

Research in Low Energy Nuclear Physics

At the University of Manitoba I started a program of few-nucleon research and nuclear optical model studies at the 50 MeV sector focused cyclotron. This resulted in elaborate phase shift analyses for p-^{3}He and p-^{4}He scattering and precision measurements of (p,2p) and (p,pd) quasi-free knockout reactions. Great emphasis was placed on the three-nucleon system. Building upon expertise at the University of Toronto a unique polarized ^{3}He target facility was constructed for scattering studies at the University of Manitoba. Also for the first time optical model analyses encompassed both low and intermediate energy data.

Research in Intermediate Energy Nuclear Physics

With the advent of the intermediate energy physics facilities I initiated a program of proton scattering studies from the very-light nuclei. With expertise from the Technical University of Delft liquid deuterium, helium-3, and helium-4 targets were constructed. The experiments were performed at the TRIUMF accelerator (180-520 MeV sector-focused cyclotron) in Vancouver, BC. After spending a year leave at CEN-Saclay I started to concentrate on studying symmetries and conservation laws. This led to a test of charge-symmetry in neutron - proton elastic scattering which I proposed in 1978 (together with the late Reto Plattner from Universität Basel) and guided to its successful completion in 1986. It was the first unambiguous measurement of charge symmetry breaking in the neutron-proton system (which is due to a class IV charge symmetry breaking interaction) and I became a Fellow of the American Physical Society.. In addition, precision data were obtained for a selected group of spin-dependent observables in the neutron-proton system. The first measurement of charge symmetry breaking in n-p elastic scattering at 477 MeV was followed by a much more precise measurement at 347 MeV, an experiment which I proposed in 1985 (together with L. Gordon Greeniaus from the University of Alberta); this most precise measurement to date was completed in 1994.

A measurement of parity violation in $\vec{p}$ -p scattering at 221.2 MeV using longitudinally polarized protons, which I proposed in 1984 as co-spokesperson (with Shelley A. Page) completed its first phase in 1989. The measurement has given unique information about the weak meson-nucleon coupling constant h_ρ. The result of this extremely demanding experiment has been disseminated widely. The above symmetry experiments have all been performed at the TRIUMF cyclotron facility.

Established a collaboration with other laboratories and institutions in order to search for the H-particle, a highly symmetric system of six quarks: two "up", two "down", and two "strange" quarks. The H-particle as well as the pentaquark and four-quark systems form a cornerstone of present understanding of Quantum Chromo Dynamics (QCD), the strong interaction extension of QED. The experiment was followed by a search for double-lambda hypernuclei. These experimental efforts were with the AGS of Brookhaven National Laboratory.

Established a collaboration with scientists from the Centre d'Etudes Nucleaires at Saclay, from the University of California at Los Angeles (UCLA), from the University of Zurich, and from the Joint Institute of Nuclear Research (JINR) in Dubna, to study rare decays of the eta-meson. This has led first to a measurement of the branching ratio $\eta - \mu^+\mu^-$ with greatly improved accuracy over previous measurements, and secondly to a precision measurement of the decay $\eta - \gamma\gamma$., results which appeared in the Particle Data Handbook.

More Recent Research

Established a collaboration of Canadian scientists to bring a strong and prominent participation in the 'G0' experiment at the Thomas Jefferson National Accelerator Laboratory (TJNAF). The 'G0' experiment measured the weak form factors of the proton, which are analogous to the electric and magnetic form factors. This in turn led to a determination of the strange quark contents of the nucleon, a topic of great interest. A unique experiment was designed which had highest priority for execution at TJNAF. I was the Canadian spokesperson for this experiment.

Have been instrumental in the development of a very high intensity optically pumped polarized ion source, the prerequisite for polarised beam acceleration in existing and proposed high-energy hadron accelerators, with as ultimate objective high-energy spin physics experiments (at RHIC of Brookhaven National Laboratory (BNL), successfully implemented, HERA of the Deutsche Elektronen Synchrotron (DESY), and JPARC of JAERI/KEK). For this polarized source Anatoly Zelensky of TRIUMF and BNL received the Veksler Prize of the Russian Academy of Sciences.

Initiated a collaboration of an experienced Canadian group (11 scientists plus 3 graduate students) to form part of the Qweak experimental team. The Qweak experiment is the first measurement ever of the weak charge of the proton as a test of the Standard Model of quarks and leptons. This high profile experiment at TJNAF completed data taking in 2012; the results of this very demanding experiment have been published in 'Nature' and its impact on the Standard Model is being discussed in Annual Review of Nuclear and Particle Science. A short version of the Qweak experiment appears in Nuclear Physics News, Vol 29, # 4.

Member of the Steering Committee to perform a Möller experiment (longitudinally polarised electron scattering from electrons) with an upgraded (to 12 GeV) CEBAF at TJNAF. This led to the current governance structure of the MOLLER experiment. The experiment is envisaged as the better measurement of $\sin^2\theta_W$ (the weak mixing angle) existing to date and the more precise test of the Standard Model in the low energy regime. Both the Qweak and MOLLER experiment had and have the highest priority for execution at Jefferson Laboratory (TJNAF).

Service to the Scientific Community

I have served or I am serving on various organizing and advisory committees for international conferences. I have served as a member of various editorial boards. I have served or I am serving on various review committees, program advisory committees, and grant selection committees. During the year 1986-1987 I was the Program Director for Intermediate Energy Physics at the US National Science Foundation in Washington, DC. I was the organizer (Chair of the Organizing Committee) of five larger nuclear/particle physics conferences. I served for nine years as the representative of the University of Manitoba on the TRIUMF Board of Management.

Awards

In 1986 I was awarded a Killam Research Fellowship by Canada Council in order to engage full-time in research for a period of two years. In 1988 I was elected a Fellow of the American Physical Society. In 1999 I was appointed a "Distinguished Professor" at the University of Manitoba. In 2002 I received the Senior Scientist Award from the Manitoba Chapter of Sigma Xi. In 2004 I became an honorary member of the standing International Committee on Spin Physics Symposia. In 2005 I was appointed a "Distinguished Professor Emeritus" at the University of Manitoba.

ACADEMIC AND RESEARCH EXPERIENCE

Dates	Position Held	Institution
Sep. 1956- Dec. 1959	Research Assistant	Institute of Nuclear Physics Research Amsterdam, The Netherlands
Jan. 1960- May 1964	Research Associate	Institute of Nuclear Physics Research Amsterdam, The Netherlands
June 1964- Dec. 1965	Assistant Research Physicist	Department of Physics University of California Los Angeles, California
Jan. 1966- Aug. 1967	Assistant Professor	Department of Physics University of California Los Angeles, California
Sep. 1967- June 1974	Associate Professor	Department of Physics University of Manitoba Winnipeg, Canada
Academic Year 1971-1972	Visiting Associate Professor	Department of Physics University of California Los Angeles, California
July 1974- June 1999	Professor	Department of Physics University of Manitoba Winnipeg, Canada
Summer 1975	Visiting Scientist	TRIUMF, Vancouver, Canada
Sep. 1975- Saclay Sep. 1976	Visiting Scientist	Centre d'Etudes Nuc1éaires de D. Ph.-N/M.E. Gif-sur-Yvette, France
July-Aug. 1979	Visiting Staff Member	Los Alamos Scientific Laboratory Los Alamos, New Mexico
Aug. 1980	Visiting Staff Member	Los Alamos Scientific Laboratory Los Alamos, New Mexico
July 1981- August 1983	Visiting Scientist (research/study leave 1981-1982) (leave of absence 1982-1983)	TRIUMF, Vancouver, Canada

May 1984- Aug. 1984	Visiting Scientist	TRIUMF, Vancouver, Canada
May 1985- Aug. 1985	Visiting Scientist	TRIUMF, Vancouver, Canada
June 1986- Aug. 1986	Visiting Scientist	TRIUMF, Vancouver, Canada
Sep. 1986	Program Director (leave of absence)	National Science Foundation Washington, D.C.
Nov. 1987- Aug. 1989	Visiting Scientist (Killam Research Fellowship)	TRIUMF, Vancouver, Canada
Sep. 1989- Aug. 1990	Visiting Scientist (research/study leave)	Laboratoire National Saturne Gif-sur-Yvette, France
Sep. 1991- Aug. 1995	Visiting Scientist	TRIUMF, Vancouver, Canada
Apr. 1996- July 1996	Guest Professor	Institute for Nuclear Study University of Tokyo Tokyo, Japan
May 1998- Dec. 1998	Guest Scientist (research/study leave)	Institut für Kernphysik Forschungszentrum Jülich Jülich, Germany
Jan. 1999- Aug. 1999	Visiting Scientist (research/study leave)	Thomas Jefferson National Acelerator Facility, Newport News, Virginia
July 1999- June 2005	Distinguished Professor	Department of Physics and Astronomy University of Manitoba Winnipeg, Canada
July 2005- Present	Distinguished Professor Emeritus	Department of Physics and Astronomy University of Manitoba Winnipeg, Canada
Apr. 2001- May 2001	Visiting Scientist	Thomas Jefferson National Accelerator Facility, Newport News, Virginia
June 2002	Visiting Scientist	Thomas Jefferson National Accelerator Facility, Newport News, Virginia
Aug. 2003- Dec. 2003	Guest Scientist (research/study leave)	Institut für Kernphysik Forschungszentrum Jülich Jülich, Germany

Jan. 2004- July 2004	Visiting Scientist (research/study leave)	Thomas Jefferson National Accelerator Facility, Newport News, Virginia
Apr. 2005- Jul. 2005	Visiting Scientist	Thomas Jefferson National Accelerator Facility, Newport News, Virginia
Jul. 2006- Oct. 2006	Visiting Scientist	Thomas Jefferson National Accelerator Facility, Newport News, Virginia
Jan. 2008- Apr. 2008	Visiting Scientist	Thomas Jefferson National Accelerator Facility, Newport News, Virginia

CURRENT RESEARCH INTERESTS

Low-Energy Nuclear Physics: in particular reactions induced by proton, deuteron, and alpha-particle beams; few-nucleon problems, phase shift analyses; the nuclear optical potential. Intermediate Energy Physics: the nucleon-nucleon interaction, interactions of protons and pions with very-light nuclei; the nuclear optical potential; fundamental symmetries: charge symmetry breaking, parity violation, and time-reversal-invariance; strangeness and hadronic matter; rare decays of the eta-meson; parity violating electron scattering and the strangeness content of the nucleon; tests of the Standard Model (weak charges of the proton and of the electron); High-Energy Spin Physics.

AWARDS

Killam Research Fellow (1987-1989) awarded by Canada Council.
Elected a Fellow of the American Physical Society (1988).
Appointed "Distinguished Professor", University of Manitoba (1999).
Senior Scientist Award awarded by the Manitoba Chapter of Sigma Xi (2002).
Honorary Member of the standing International Committee on Spin Physics Symposia.
Appointed "Distinguished Professor Emeritus" (2005).

UNIVERSITY SERVICE

The following courses were taught:

1966-1967	Physics 1B	Waves and Oscillations, Thermodynamics
	Physics 1C	Electricity and Magnetism
1967-1968	16:351	Mathematical Physics for Chemists
1968-1969	16:705	Nuclear Physics I
1969-1970	16:340	Modern Physics
	16:705	Nuclear Physics I
1970-1971	16:340	Modern Physics
	16:705	Nuclear Physics I
1971-1972	Physics 3C	Light, Relativity and Modern Physics
	Physics 121	Modern Physics
1972-1973	16:343	3rd Year Honours Physics Laboratory
	16:705	Nuclear Physics I
1973-1974	16:451	Nuclear Physics
	16:705	Nuclear Physics I
1974-1975	16:444	4th Year Honours Physics Laboratory
	16:457	Applied Physics Laboratory
	16:706	Nuclear Physics II
1976-1977	16:340	Modern Physics
	16:343	3rd Year Honours Physics Laboratory
	16:705	Nuclear Physics I
1977-1978	16:343	3rd Year Honours Physics Laboratory
	16:705	Nuclear Physics I
1978-1979	16:120	Mechanics and Electricity
	16:343	3rd Year Honours Physics Laboratory
1979-1980	16:343	3rd Year Honours Physics Laboratory
	16:706	Nuclear Physics II
1980-1981	16:343	3rd Year Honours Physics Laboratory
	16:706	Nuclear Physics II
1983-1984	16:706	Nuclear Physics II

1984-1985	16:446	Quantum Mechanics
	16:456/732	Applied Nuclear Science/Applications of Accelerators
1985-1986	16:233	Mechanics
	16:343	3rd Year Honours Physics Laboratory
	16:451	Nuclear Physics
1990-1991	16:118E	Dynamics
	16:128E	Introduction to Electrical Science
	16:236E	Modern Physics IIC
	16:355E	Nuclear Physics IIIM
1995-1996	16:102	General Physics I
	16:103	General Physics II
	16:705/706	Nuclear Physics I and II
1996-1997	16:102	General Physics I
	16:103	General Physics II
	16:451	Introduction to Nuclear Physics
	16:220	Electricity and Magnetism
1997-1998	16:118	Dynamics
	16.103	General Physics II
	16.451	Introduction to Nuclear Physics
	16.220	Electricity and Magnetism
1999-2000	16.102	General Physics I
	16.365	Classical Mechanics II
	16.103	General Physics II
	16.758	Advanced Topics in Nuclear Physics
2000-2001	16.102	General Physics I
	16.365	Classical Mechanics II
	16.103	General Physics II
	16.265	Classical Mechanics I
2001-2002	16.102	General Physics I
	16.365	Classical Mechanics II
	16.103	General Physics II
	16.265	Classical Mechanics I
2002-2003	16.365	Classical Mechanics II
	16.757	Nuclear Physics
	16.265	Classical Mechanics I

Thesis projects supervised and dates of awarding the degree:

G. LoBianco	MSc May, 1970
Y.I. Wu	PhD October, 1970
Huang Haw	MSc May, 1973
E.S.Y. Tin	PhD October, 1974
A.M. McDonald	PhD May, 1976
T.N. Nasr	MSc October, 1977
D.K. Hasell	MSc October, 1978
T.N. Nasr	PhD October, 1980
G.R. Maughan	MSc October, 1982
P.J.T. Verheijen	PhD October, 1983
D.K. Hasell	PhD February, 1984
A. Bracco	PhD February, 1984
P. Drakopoulos	MSc May, 1984
T. Elyakut	MSc October, 1985
A. Rouvas	MSc May, 1986
D. Bandyopadhyay	PhD May, 1989
K. Chantziantoniou	MSc October, 1989
A.M. Sekulovich	MSc May, 1991
V. Sum	MSc May, 1992
J. Zhao	PhD May, 1995
M.R. Landry	PhD May, 2000
Zunjian Ke	PhD May, 2008

At UCLA are guided the following graduate students towards their Ph.D. : John M. Cameron (1967) and H.B. (Jack) Eldridge (1966).

GRANTS HISTORY

2009-2010	NSERC Project Grant	$35,000.00
2008-2009	NSERC Project Grant	$75,000.00
2007-2008	NSERC Project Grant	$110,000.00
	NSERC Special Opportunity Grant	$21,935.00
2006-2007	NSERC Project Grant	$150,000.00
	NSERC Special Opportunity Grant	$14,250.00
2005-2006	NSERC Project Grant	$175,000.00
2004-2005	NSERC Project Grant	$175,000.00
2003-2004	NSERC Project Grant	$211,000.00
2002-2003	NSERC Project Grant	$215,000.00
	NSERC International Opportunity Fund	$17,831.00

2001-2002	NSERC Project Grant	$219,000.00
	NSERC International Opportunity Fund	$11,800.00
2000-2001	NSERC Project (Team) Grant	$167,000.00
	NSERC Project Grant	$110,400.00
1999-2000	NSERC Project (Team) Grant	$187,000.00
	NSERC Project Grant	$100,500.00
	University of Michigan (High Intensity OPPIS)	$15,374.00
1998-1999	NSERC Project (Team) Grant	$187,000.00
	NSERC Project Grant	$84,000.00
	University of Michigan (High Intensity OPPIS)	$42,557.00
1997-1998	NSERC Team Grant	$180,000.00
	NSERC Project Grant	$35,000.00
	University of Michigan (High Intensity OPPIS)	$20,937.00
1996-1997	NSERC Team Grant	$180,000.00
	NSERC Project Grant	$27,000.00
	University of Michigan (High Intensity OPPIS)	$9,677.00
1995-1996	NSERC Infrastructure Grant	$180,000.00
	NSERC Project Grant	$38,600.00
1994-1995	NSERC Infrastructure Grant	$180,000.00
	NSERC Project Grant	$40,000.00
	NSERC Project Grant	$20,000.00
	NATO Collaborative Research Grant	$11,564.00
	FNAL (Polarized Tevatron Studies)	$41,150.00
1993-1994	NSERC Infrastructure Grant	$180,000.00
	NSERC Project Grant	$45,000.00
	NSERC Project Grant	$30,000.00
	NSERC Project Grant	$10,000.00
1992-1993	NSERC Infrastructure Grant	$180,000.00
	NSERC Project Grant	$30,000.00
	NSERC Project Grant	$15,000.00
1991-1992	NSERC Infrastructure Grant	$180,000.00
	NSERC Project Grant	$26,388.00
	NSERC Project Grant	$30,000.00
1990-1991	NSERC Infrastructure Grant	$146,000.00
	NSERC Project Grant	$29,000.00
	NATO Collaborative Research Grant	$9,408.14

1989-1990	NSERC Infrastructure Grant	$150,000.00
	NSERC Project Grant	$27,000.00
	NSERC Conference Grant	$4,000.00
1988-1989	NSERC Project Grant (salaries)	$100,000.00
	NSERC Project Grant	$25,000.00
	NSERC Project Grant	$7,000.00
	Killam Research Fellowship	$61,471.00
1987-1988	NSERC Project Grant (salaries)	$100,000.00
	NSERC Project Grant	$35,000.00
	NSERC Project Grant	$12,000.00
	Killam Research Fellowship	$61,471.00
1986-1987	NSERC Project Grant	$11,898.00
	NSERC Project Grant	$19,830.00
	NSERC Project Grant	$2,479.00
	NSERC Project Grant	$24,788.00
	NSERC Project Grant (salaries)	$79,322.00
	NSERC Operating Grant	$11,898.00
1985-1986	NSERC Project Grant	$36,000.00
	NSERC Project Grant	$50,000.00
	NSERC Project Grant	$20,000.00
	NSERC Project Grant (salaries)	$80,000.00
	NSERC Operating Grant	$22,000.00
	NSERC Infrastructure Grant (cosignatory)	($470,000.00)
	University of Manitoba Research Grant	$7,000.00
1984-1985	NSERC Project Grant	$95,000.00
	NSERC Project Grant	$15,000.00
	NSERC Project Grant (salaries)	$63,000.00
	NSERC Operating Grant	$22,000.00
	NSERC Equipment Grant	$34,312.00
	NSERC Infrastructure Grant (cosignatory)	($590,000.00)
1983-1984	NSERC Project Grant	$95,104.00
	NSERC Project Grant (salaries)	$59,360.00
	NSERC Operating Grant	$21,200.00
	NSERC Core Grant (cosignatory)	($639,180.00)
1982-1983	NSERC Project Grant	$92,520.00
	NSERC Project Grant (salaries)	$53,000.00
	NSERC Operating Grant	$25,000.00
	NSERC Core Grant (cosignatory)	($590,000.00)

1981-1982	NSERC Project Grant	$75,176.00
	NSERC Project Grant	$14,000.00
	NSERC Project Grant (salaries)	$47,829.00
	NSERC Operating Grant	$25,000.00
	NSERC Strategic Grant (2nd installment)	$8,244.00
	NSERC Core Grant (cosignatory)	($515,000.00)
	NSERC Travel Grant	$1,000.00
	University of Manitoba Research Grant	$2,000.00
1980-1981	NSERC Project Grant	$110,000.00
	NSERC Project Grant	$10,000.00
	NSERC Operating Grant	$23,000.00
	NSERC Strategic Grant	$18,597.00
	NSERC Core Grant (cosignatory)	($450,000.00)
	University of Manitoba Research Grant	$2,000.00
1979-1980	NSERC Project Grant	$50,000.00
	NSERC Project Grant	$20,000.00
	NSERC Operating Grant	$14,000.00
	NSERC Core Grant (cosignatory)	($390,000.00)
	University of Manitoba Research Grant	$1,800.00
1978-1979	NRC Project Grant	$45,000.00
	NRC Operating Grant	$14,000.00
	NRC Conference Grant	$7,000.00
	NRC Core Grant (cosignatory)	($370,000.00)
	University of Manitoba Research Grant	$2,400.00
1977-1978	NRC Project Grant	$40,000.00
	AECL Conference Grant	$3,000.00
	NRC Core Grant (cosignatory)	($450,000.00)
1976-1977	NRC Project Grant	$39,000.00
	University of Manitoba Research Grant	$2,000.00
	NRC Core Grant (cosignatory)	($360,000.00)
1975-1976	NRC Operating Grant	$44,499.00
	NRC Travel Fellowship	$3,433.00
	NRC Core Grant (cosignatory)	($360,000.00)
1974-1975	NRC Operating Grant	$15,000.00
	University of Manitoba Research Grant	$3,000.00
	NRC Block Grant	($300,000.00)
1973-1974	NRC Operating Grant	$10,000.00
	NRC Equipment Grant	$25,000.00
	NRC Block Grant (cosignatory)	($330,000.00)

SERVICE TO THE SCIENTIFIC COMMUNITY

1. Member of the Organizing Committee of the International Conference on Few Particle Problems in the Nuclear Interaction (University of California at Los Angeles, August 28-September 1, 1972).

2. Member of the Organizing Committee of the International Conference on Few-Body Problems in Nuclear and Particle Physics (Laval University, August 27-30, 1974).

3. Organizer (with others) of the Twelfth Annual Western Canadian Nuclear Conference (University of Manitoba, February 20-22, 1975).

4. Chairman of the International Advisory and Organizing Committee of the Third International Conference on Clustering Aspects of Nuclear Structure and Nuclear Reactions (University of Manitoba, June 19-23, 1978).

5. Member of the Scientific Program Committee of the Eighth International Conference on High Energy Physics and Nuclear Structure (TRIUMF, August 13-17, 1979).

6. Member of the International Advisory Committee of the Fifth International Conference on Polarization Phenomena in Nuclear Physics, (Santa Fé, New Mexico, August 25-29, 1980).

7. Member of the International Advisory Committee of the Fourth International Conference on Clustering Aspects of Nuclear Structure and Nuclear Reactions (Chester, England, July 23-27, 1984).

8. Member of the Scientific Advisory Committee of the International Conference on Hadronic Probes and Nuclear Interactions (Tempe, Arizona, March 11-14, 1985).

9. Member of the International Advisory Committee of the Sixth International Conference on Polarization Phenomena in Nuclear Physics (Osaka, Japan, August 26-30, 1985).

10. Coordinator (with J.B. Roberts) of the Parallel Sessions on Spin Physics, Second Conference on the Intersections of Nuclear and Particle Physics (Lake Louise, Alberta, May 26-31, 1986).

11. Member of the International Advisory Committee of the European Workshop on Few Body Physics (Rome, Italy, October 7-11, 1986).

12. Chairperson Organizing Committee of the Symposium/Workshop on Parity Violation in Hadronic Systems (Vancouver, B.C., May 28-29, 1987).

13. Member of the Organizing Committee on the Conference on the Intersections between Particle and Nuclear Physics (Rockport, Maine, May 14-19, 1988).

14. Member of the International Advisory Board of the Fifth International Conference on Clustering Aspects in Nuclear and Subnuclear Systems (Kyoto, Japan, July 25-29, 1988).

15. Organizer of the Technical Session on "Spin and Symmetries" at the 8th International Symposium on High Energy Spin Physics, (Minneapolis, Minnesota, September 12-17, 1988).

16. Chairperson of the Organizing Committee of the Symposium/Workshop on Spin and Symmetries (Vancouver, B.C., June 30-July 2, 1989).

17. Member of the Organizing Committee for the 12th International Conference on Few-Body Problems in Physics (Vancouver, B.C., July 2-8, 1989).

18. Member of the Organizing Committee of the Workshop on Rare Decays of Light Mesons (Gif-sur-Yvette, France, March 29-30, 1990).

19. Organizer of and Rapporteur on the Parallel Session on "Polarization and Symmetries" at the 7th International Conference on Polarization Phenomena in Nuclear Physics (Paris, France, July 9-13, 1990).

20. Co-Chairperson Fourth Conference on the Intersections between Particle and Nuclear Physics (Tucson, Arizona, May 23-29, 1991).

21. Member of the International Advisory Committee of the XIII International Conference on Few-Body Problems in Physics (Adelaide, Australia, January 5-11, 1992).

22. Member of the International Advisory Committee of the XIV International Conference on Few-Body Problems in Physics (Williamsburg, Virginia, May 24-31, 1994).

23. Chairperson Fifth Conference on the Intersections of Particle and Nuclear Physics, (St. Petersburg, Florida, May 31 - June 6, 1994).

24. Member of the International Advisory Committee of the VIII International Symposium on Polarization Phenomena in Nuclear Physics (Bloomington, Indiana, September 15-22, 1994).

25. Member of the International Advisory Committee of the 7th International Conference on the Structure of Baryons (Santa Fe, New Mexico, October 3-7, 1995).

26. Honorary Member of the International Advisory Committee for Spin Physics Symposia (1997-present).

27. Member of the Organizing Committee of the Sixth Conference on the Intersections of Particle and Nuclear Physics (Big Sky, Montana, May 27 - June 2, 1997).

28. Member of the International Advisory Committee of the Second International Symposium on Symmetries in Subatomic Physics (Seattle, Washington, June 25-28, 1997).

29. Member of the International Advisory Committee of the 15th International Conference on Few-Body Problems in Physics (Groningen, the Netherlands, July 22-26, 1997).

30. Chairperson, Local Organizing Committee of the 1997 DNP Fall Meeting (Whistler, BC, October 5-8, 1997).

31. Member of the International Advisory Committee of the 16th European Conference on Few Body Problems in Physics (Autrans, France, June 1-6, 1998).

32. Co-organizer Workshop on Parity Violation in Hadronic and Nuclear Systems (Seattle, Washington, June 22-24, 1998).

33. Member of the International Advisory Committee of BARYONS 98 (Bonn, Germany, September 22-26, 1998).

34. Chairperson International Workshop on Intermediate Energy Spin Physics (Jülich, Germany, November 18-20, 1998).

35. Member of the International Advisory Committee of the workshop on Hypernuclear Physics with Electromagnetic Probes (Hampton, VI, December 2-4, 1999).

36. Member of the International Advisory Committee of the 16th International Conference on Few-Body Problems in Physics (Taipei, Taiwan, March 6-10, 2000).

37. Member of the International Advisory Committee of the 3rd International Symposium on Symmetries in Subatomic Physics (Adelaide, Australia, March 13-17, 2000).

38. Coordinator of the International Workshop on Parity Violation in Atomic, Nuclear, and Hadronic Systems, European Center for Theory (Trento, Italy, June 5-17, 2000).

39. Co-organizer of the workshop on Low Energy Precision Electroweak Measurements (TRIUMF, Vancouver BC, April 4-6, 2002).

40. Member of the International Advisory Committee of the Workshop "From Parity Violation to Hadronic Structure and More" (Mainz, Germany, June 5-8, 2002).

41. Member of the International Advisory Committee of the 15th International Spin Physics Symposium (BNL, Long Island NY, September 9-14, 2002).

42. Member of the International Advisory Committee of the 17th International IUPAP Conference on Few-Body Problems in Physics (Durham NC, June 5-10, 2003).

43. Chair of the Organization Committee of the"FINUPHY Workshop on Advanced Electromagnetic Calorimetry and its Applications: WASA at COSY (FEMC04)", Institut für Kernphysik, Forschungszentrum Jülich, Jülich, Germany (January 26-29, 2004).

44. Member of the International Advisory Committee of the Workshop "From Parity Violation to Hadronic Structure and More" (Grenoble, France, May 11-14, 2004).

45. Co-organizer of the Workshop "From Zero to Z^0: a Workshop on Precision Electroweak Physics" (FNAL, May 12-15, 2004).

46. Vice-Chair of the Local Organizing Committee of the Canadian Association of Physicists Annual Congress 2004, Winnipeg MB (June 13-16, 2004).

47. Co-organizer of the Jefferson Laboratory Hall-C Physics Workshop, Newport News VA (August 18-19, 2004).

48. Member of the International Advisory Committee of the 16th International Symposium on Spin Physics [Spin 2004] (Trieste, Italy, October 10-16, 2004).

49. Co-organizer of the 42nd Western Regional Nuclear and Particle Physics Conference (Banff, AB, February 18-20, 2005).

50. Member of the International Advisory Committee of the 3rd Asia-Pacific Conference on Few-Body Problems in Physics (Nakhon Ratchasima, Thailand, July 26-30, 2005).

51. Member of the International Advisory Committee of the Workshop "From Parity Violation to Hadronic Structure and More" (Milos, Greece, May 16-20, 2006).

52. Member of the Scientific Organizing Committee of the 18th International Conference on Few-Body Problems in Physics (Santos, SP, Brasil, August 24-29, 2006).

53. Member of the International Advisory Committee of the 17th International Symposium on Spin Physics [SPIN 2006](Kyoto, Japan, October 2-7, 2006).

54. Organizer of the Electroweak Workshop: The Scientific Impact and Feasibility of an Ultra-precise 12 GeV Möller Experiment to Test the Standard Model (Jefferson Laboratory, Newport News, VA, December 11-13, 2006).

55. Member of the International Advisory Committee of the International Nuclear Physics Conference (Tokyo, Japan, June 3-8, 2007).

56. Member of the International Advisory Committee of the 11th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (IKP, Forschungszentrum Jülich, Germany, September 10-14, 2007).

57. Member of the International Advisory Committee of the Fourth Asia Pacific Conference on Few Body Problems in Physics [APFB08] (Depok, Indonesia, August 19-23, 2008)

58 Member of the International Advisory Committee of the 18th International Symposium on Spin Physics [SPIN2008] (Charlottesville, VA, October 6-11, 2008).

59. Co-Chair of the Organizing Committee and Chair of the Scientific Advisory Committee of the Conference on the Intersections of Particle and Nuclear Physics [CIPANP 2009]

(San Diego, CA, May 26-31, 2009).

60. Member of the International Advisory Committee of the Fourth International Symposium on Symmetries in Subatomic Physics [SSP 2009] (Taipei, Taiwan, June 2-6, 2009).

61. Member of the International Advisory Committee of the Workshop "From Parity Violation to Hadronic Structure and More" [PAVI09] (Bar Harbor, ME, June 22-26, 2009).

62. Member of the International Advisory Committee of the 12th Conference on Meson-Nucleon Physics and the Structure of the Nucleon MENU2010 (Williamsburg, VA, May 31 – June 3, 2010).

63. Member of the International Advisory Committee of the International Nuclear Physics Conference INPC2010 (Vancouver, BC, July 5-9, 2010).

64. Member of the International Advisory Committee of the 19th International Symposium on Spin Physics SPIN2010 (Juelich, Germany, September 27 – October 2, 2010).

65. Organizer of the Workshop "Precision Tests of the Standard Model: from Atomic Parity Violation to Parity-Violating Lepton Scattering" (ECT*, Trento, Italy, November 8 – 12, 2010).

66. Member of the International Advisory Committee of the Fifth Asia-Pacific Conference on Few Body Problems in Physics APFB11 (Seoul, Korea, August 22 – 26, 2011).

67. Member of the Organizing Committee of the Fifth Workshop "From Parity Violation to Hadronic Structure and more ---", (Rome, Italy, September 5 – 9, 2011).

68. Member of the International Advisory Committee of the Workshop on High Energy Spin Physics DSPIN11 (JINR, Dubna, Russia, September 20 – 24, 2011).

69. Member of the International Advisory Committee of the 20th International Spin Physics Symposium Spin 2012 (JINR, Dubna, Russia, September 17-22, 2012).

70. Chair of the Organizing Committee of the 11th Conference on the Intersections of Particle and Nuclear Physics CIPANP 2012 (St. Petersburg, FL, May 28 – June 3, 2012).

71. Member of the International Scientific Advisory Committee of the 5th Symposium on Symmetries in Subatiomic Physics (Groningen, The Netherlands, June 18 – 22, 2012).

72. Member of the International Scientific Advisory Committee of the 13th Conference on Meson-Nucleon Physics and the Structure of the Nucleon MENU 2013 (Rome, Italy, September 30 – October 4, 2013).

73. Member of the International Advisory Committee of the Sixth Asia Pacific Conference on Few Body Problems in Physics, APFB 12 Hanford, South Australia, (April 7 – 11, 2014).

74. Member of the Organizing Committee of the Sith Workshop "From Parity Violation to

Hadronic Structure and more --- " (Skaneateles, NY, July 14-18, 2014).

75. Member of the International Advisory Committee of the 21st International Spin Physics Symposium SPIN 2014 (Beijing, China, October 20 – 24, 2014).

76. Co-Chair of the 6th International Symposium on Symmetries in Subatomic Physics – SSP 2015 (Victoria, BC, June 8 – 12, 2015).

77. Member of the Organizing Committee of the 12th Conference on the Intersections of Particle and Nuclear Physics [CIPANP 2015], (Vail, CO, May 19 – 25, 2015).

78. Member of the International Scientific Advisory Committee of the Workshop on High Energy Spin Physics [DSPIN-15], (JINR, Dubna, Russia, September 8 – 12, 2015).

79. Member of the International Advisory Committee of the 14th Conference on Meson-Nucleon Physics and the Structure of the Nucleon [MENU2016], (Tokyo, Japan, July 24 – 29, 2016).

80. Member of the International Advisory Committee of the International Nuclear Physics Conference [INPC2016], (Adelaide, SA, September 11 – 16, 2016).

81. Member of the International Advisory Committeeof the 22nd International Spin Physics Symposium SPIN 2016 (Urbana/Champaign, USA, September 25 – 30, 2016).

82. Member of the International Advisory Committee of the 7th Asia-Pacific Conference on Few-Body Problems in Physics [APFB2017], (Guilin, China, August 25 – 29, 2017).

83. Member of the International Scientific Advisory Committee of the Workshop on High Energy Spin Physics [DSPIN-17], (JINR, Dubna, Russia, September 11 – 15, 2017).

84. Member of the International Advisory Committee of the 23rd International Spin Physics Symposium SPIN 2018 (Ferrara, Italy, September 10 – 14, 2018).

85. Member of the International Advisory Committee of the 15th Conference on Meson-Nucleon Physics and the Structure of the Nucleon [MENU2019], (Pittsburg, PA, June 2 – 7, 2019).

86. Member of the International Advisory Committee of the International Nuclear Physics Conference [INPC2019], (Glasgow, U.K., July 20 – August 2, 2019).

87. Member of the International Scientific Advisory Committee of the Workshop on High Energy Spin Physics [DSPIN-19], (JINR, Dubna, Russia, September 2 – 6, 2019).

88. Member of the International Advisory Committee of the Eighth Workshop "From Parity Violation to Hadronic Structure and More" [PAVI2020], Mainz, Germany, July 20 – 24, 2020).

89. Member of the International Advisory Committee of the 24th International Spin Physics Symposium [SPIN2020], Matsue, Shimane Prefecture, Japan, September 20 – 2025,

2020.

90. Member of the International Advisory Committee of the 8th Asia-Pacific Conference on Few-Body Problems in Physics [APFB2020], (Kanazawa, Japan, August 19 – 23, 2020).

91. Member of TRIUMF Users' Executive Committee (1974-1975).

92. Member of the Intermediate Energy Grants Selection Committee of the National Research Council of Canada (1976-1978).

93. Member of the Program Advisory Committee of the Indiana University Cyclotron Facility (1978-1981).

94. Member of the Department of Energy Review Panel on the Medium Energy Physics Users Program (1983).

95. Member of the LAMPF Program Advisory Committee (1985-1987).

96. Chairman of the TRIUMF Long Range Planning Committee (1985-1987).

97. Member of the Editorial Board of Physical Review C (1986-1988).

98. Member of the Editorial Board "Few-Body Systems" (1986-1991).

99. Program Director for Intermediate Energy Nuclear Physics, National Science Foundation (1986-1987).

100. Member of the LAMPF Program Advisory Committee (1989-1992).

101. Chair elect of the TRIUMF Users Organization (1992).
Chair of the TRIUMF Users Organization (1993).
Past-Chair of the TRIUMF Users Organization (1994).

102. Alternate Member of the TRIUMF Operating Committee (1995-1997).
Member of the TRIUMF Operating Committee (1997-1999).

103. Member, Program Committee, Division of Nuclear Physics, American Physical Society (1996-1998).

104. Member of the US National Science Foundation Review of the Indiana University Cyclotron Facility (1999).

105. Chair of the Program Advisory Committee of the Indiana University Cyclotron Facility (1999-2002).

106. Member of the IUPAP Commission on Nuclear Physics (C12) (2000-2002).
Secretary of the IUPAP Commission on Nuclear Physics (C12) (2003-2005).
Vice-Chair of the IUPAP Commission on Nuclear Physics (C12) (2006-2008).

107. Chair elect of the Division of Nuclear Physics of the CAP (1996-1998).
Chair of the Division of Nuclear Physics of the CAP (1998-2000).
Past-Chair of the Division of Nuclear Physics of the CAP (2000-2002).

108. Member of the TRIUMF Board of Management (2000-2009).

109. Member of the Executive of the Division of Nuclear Physics of the American Physical Society (2002-2004).

110. Member/Chair of the Cooler Synchrotron Program Advisory Committee, Forschungszentrum Jülich, Jülich, Germany (2002-2008).

111. Member of the Canadian National IUPAP Liaison Committee (2000-2014).

112. Secretary of the IUPAP Committee on International Cooperation in Nuclear Physics (CICNP) (2003-2005).

113. Vice-Chair/Chair of the American Physical Society Bonner Prize Committee (2005-2007).

114. (Executive) Secretary of the IUPAP Working Group (WG.9) – International Cooperation in Nuclear Physics (2006-2020).

115. Member of the OECD Global Science Forum Working Group on Nuclear Physics (2006 -2008).

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TALKS

Presented over the years a large number of invited talks at Conferences, Symposia, Workshops, Colloquia, and Seminar series.