

Douglas Michael Gingrich



Academic Address

Centre for Particle Physics
Department of Physics
University of Alberta
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Home Address

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Citizenship: Canadian

Date of Birth: 27 February 1958

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ACADEMIC POSITIONS

Professor of Physics	University of Alberta	2001 to present
Visiting Research Professor	SNOLAB	2013-14
Honorary Research Associate	University College London	2010-13
Honorary Research Fellow	University College London	2007-09
Adjunct Visiting Research Scientist	Columbia University	1999-00
Associate Professor of Physics	University of Alberta	1997-01
Assistant Professor of Physics	University of Alberta	1993-97
Postdoctoral Research Associate	University of Oxford	1988-93
College Lecturer in Physics	Oxford (Hertford College)	1988-92

EDUCATION

1988	Ph.D.	Experimental High Energy Physics	University of Toronto
1983	M.Sc.	Experimental High Energy Physics	University of Toronto
1982	B.Sc.	Honours Co-op Applied Physics	University of Waterloo

ACADEMIC AWARDS AND RECOGNITION

Area of Research Excellence	University of Alberta	2001
Emerging Centre of Excellence	University of Alberta	1994-98
NSERC Postgraduate Scholarship	University of Toronto	1988
U. of T. Open Doctoral Fellowship	University of Toronto	1987,86,84
Ontario Graduate Scholarship	University of Toronto	1986,83
E.C. Stevens Scholarship	University of Toronto	1983
Ford S. Kumpf Scholarship	University of Waterloo	1977-79

SOCIETY MEMBERSHIPS

American Physical Society
Canadian Association of Physicists
Institute of Particle Physics (Canada)

RESEARCH

Publications

See attached list of publications.

168	h-index
1,329	total (34 years) publications
146,160	total (34 years) citations
110	average citations per paper
33	papers with over 500 citations
55	papers with between 250 and 499 citations
1267	papers with between 100 and 249 citations

Research Support

\$1,387,495	2020-21 as principle investigator
\$11,059,855	total (28 years) as principle investigator
\$15,598,628	total (28 years) shared at Alberta

Public Lectures

1. University of Alberta Observatory, *The Extra-dimensional Universe*, 2017.
2. Pacific Institute for the Mathematical Sciences (PIMS), Red Deer College, *The High-Energy Frontier: Particle Physics with the New Large Hadron Collider*, 2008.
3. Independent Power Producers Society of Alberta, Banff, *The High-Energy Frontier*, 2008 (keynote, 745 people)

Invited Talks Given at Universities and Laboratories

1. University of Tsinghua, Beijing, *Collider searches for non-perturbative low-scale gravity states*, 2019.
2. Peking University, Beijing, *Collider searches for non-perturbative low-scale gravity states*, 2019.
3. Institute of High Energy Physics, Beijing, *Collider searches for non-perturbative low-scale gravity states*, 2018.
4. TRIUMF, *Collider searches for non-perturbative low-scale gravity states*, 2018.
5. University of Tokyo: ICEPP, *Collider searches for low-scale gravity states*, 2016.
6. Shanghai Jiao-Tong University, *Collider searches for non-perturbative low-scale gravity states*, 2015.
7. The Chinese University of Hong Kong, *Limits on non-perturbative gravitational states at the LHC*, 2015.
8. University of Winnipeg, *The Higgs Boson: Road to the 2013 Nobel Prize in Physics*, 2015.
9. University of Manitoba, *The Higgs Boson: Road to the 2013 Nobel Prize in Physics*, 2015.
10. Jeda, Saudi Arabia, *Road to the 2013 Nobel Prize in Physics*, 2013.
11. Jazan, Saudi Arabia, *Road to the 2013 Nobel Prize in Physics*, 2013.
12. Perimeter Institute, *Search for nonperturbative gravity states at the LHC*, 2012.
13. Perimeter Institute, *Transplanckian Physics in Early ATLAS Data*, 2009.
14. Royal Holloway University of London, *Black Hole Production and Decay at the LHC*, 2007.

15. University College London, *VHE Gamma-Ray Astronomy with STACEE*, 2007.
16. University of Regina, *Very High-Energy Gamma-Ray Astronomy with STACEE*, 2007.
17. University of Cambridge, *VHE Gamma-Ray Astronomy with STACEE*, 2006.
18. University of Alberta, *The Unobserved Gamma-Ray Sky*, 2000.
19. University of Toronto, *ATLAS Calorimeter Electronics*, 1996.
20. University of Alberta, *The ATLAS Project in Canada*, 1996.
21. University of Alberta, *Measuring the Structure of the Proton*, 1992.
22. University of Alberta, *How to Measure Structure Functions at HERA*, 1992.
23. University of Pittsburgh, *Measuring the Structure of the Proton*, 1992.
24. University of Oxford, *Software Tools for Transputer Networks*, 1992.
25. Imperial Coll, Univ. of London, *Sensitivity to Leptoquark Detection in ZEUS*, 1991.
26. TRIUMF, *How to Measure Structure Functions at HERA*, 1990.
27. University of Toronto, *How to Measure Structure Functions at HERA*, 1990.
28. McGill University, *How to Measure Structure Functions at HERA*, 1990.
29. Carleton University, *How to Measure Structure Functions at HERA*, 1990.
30. University of Liverpool, *Experimental Evidence for $b \rightarrow u$ Transitions*, 1988.
31. University of Oxford, *Observation of Charmless B Decay*, 1988.
32. Stanford Linear Accelerator Center, *D_S Production in B Meson Decay*, 1987.
33. Enrico Fermi Institute, *D_S Production in B Meson Decay and Observation of Charmless B Decay*, 1987.
34. University of Maryland, *D_S Production in B Meson Decay and Observation of Charmless B Decay*, 1987.
35. University of Syracuse, *D_S Production in B Meson Decay and Observation of Charmless B Decay*, 1987.
36. Université de Montréal, *Observation of Charmless B Decay*, 1987.

Talks Given at Professional Conferences

1. (Invited) Large Hadron Collider Physics Conference LHCP2015, St. Petersburg, Russia, 2015. *Search for new physics in dijet resonant signatures and recent results from Run2 with the ATLAS experiments.*
2. (Invited) Canadian Association of Physicists Congress, Edmonton, Canada, 2015. *Low-scale gravity phenomenology.*
3. (Invited) TSIMFP2014, Jazan, Saudi Arabia, 2013. *The High-Energy Frontier.*
4. Black Holes VII: Theory and Mathematical Aspects, Banff, Canada, 2013. *Black holes in earl ATLAS data.*
5. Canadian Association of Physicists Congress, St. Johns, Canada, 2011. *Noncommutative geometry inspired black holes in higher dimensions at the LHC.*
6. (Invited) Moriond EW 2011, La Thuile Italy, 2011. *Exotic Searches at ATLAS.*
7. (Invited) Excited QCD 2011, Les Houches, France, 2011. *Noncommutative geometry inspired black holes in higher dimensions at the LHC.*
8. (Invited) Hengstberger Symposium Extra Dimensions and Mini Black Holes, Heidelberg, 2009. *String Balls.*
9. Black Holes VII: Theory and Mathematical Aspects, Banff, 2009. *Black holes in Early ATLAS Data.*
10. (Invited) TRIUMF, 2007. *Signatures of Singlet Neutrinos in Large Extra Dimensions at the LHC.*
11. CTP Symposium on Supersymmetry at LHC: Theoretical and Experimental Perspectives, British University, Egypt, 2007. *Black Hole Production at the Large Hadron Collider.*

12. APCTP-TPI Joint Meeting, Edmonton, Canada, 2006. *Black Hole Production at the Large Hadron Collider*.
13. Canadian Association of Physicists Congress, Winnipeg, Canada, 2004. *Radiation Tolerant Microelectronics by Design*.
14. IEEE 2004 Nuclear Science Symposium and Medical Imaging Conference, Rome, Italy, 2004. *The STACEE Ground-Based Gamma-Ray Detector*, published in Conference Record (CD format).
15. (Poster) IEEE 2004 Nuclear Science Symposium and Medical Imaging Conference, Rome, Italy, 2004. *Study of n-channel MOSFETs with an enclosed-gate layout in a 0.18 micron CMOS technology*, published in Conference Record (CD format).
16. IEEE 2003 Nuclear Science Symposium and Medical Imaging Conference, Portland, Oregon, U.S.A., 2003. *Radiation Tolerant ASIC for Controlling Switched-Capacitor Arrays*, published in Conference Record (CD format).
17. (Poster) 2002 IEEE Radiation Effects Data Workshop, Phoenix, Arizona, U.S.A., 2002. *Ionizing Radiation Effects in EPF10K50E and XC2S150 Programmable Logic Devices*, published in Workshop Record (2002) 41-44.
18. Single Event Effects Symposium, Los Angeles, U.S.A., 2002. *A Radiation Tolerant Controller for a Switched Capacitor Array*, published in Proceedings (CD format).
19. (Invited) Canadian Association of Physicists Congress, Victoria, Canada, 2001. *Status of the STACEE Project*.
20. Military and Aerospace Applications of Programmable Devices and Technologies Conference, Laurel, Maryland, 2000. *Problems and Solutions to the Radiation Tolerance of the ATLAS Liquid Argon Calorimeter Electronics*, published in MAPLD 2000 Proceedings (CD format).
21. (Invited) Canadian Association of Physicists Congress, York, Canada, 2000. *Search for Higgs Bosons and New Particles with OPAL*.
22. Military and Aerospace Applications of Programmable Devices and Technologies Conference, Laurel, Maryland, 1999. *Total Ionizing Dose Effects in a SRAM-Based FPGA*, published in MAPLD 1999 Proceedings (CD format).
23. (Invited) Canadian Association of Physicists Congress, Waterloo, Canada, 1998. *Canada's High-Energy Frontier*.
24. International Conference on Electronics for Future Colliders, New York, U.S.A., 1997. *SCA Controller for the ATLAS Calorimeter*, published in Conference Proceeding (1997) 43-51.
25. (Invited) 2'nd International Conference on Hyperons, Charm and Beauty Hadrons, Montréal, Canada, 1996. *Status and Future Plans of the Canadian ATLAS Group*, published in Nuclear Physics B (Proc. Suppl.) 55A (1997) 281-285.
26. (Invited) 33'rd Western Regional Nuclear and Particle Physics Conference, Lake Louise, Canada, 1996. *TeV Physics in Canada*.
27. (Poster) IEEE 1995 Nuclear Science Symposium and Medical Imaging Conference, San Francisco, U.S.A., 1995. *A Pipeline Controller for the ATLAS Calorimeter*, published in Conference Record (1996) 277-279.
28. RTD'94 ESONE's International Conference on Real Time Data with emphasis on Distributed Front-End Processing, Dubna, Russia, 1994. *An Analog Pipeline Readout Module for the ATLAS Calorimeter*, published in Conference Record (1994) 141-146.
29. International Conference on Electronics for Future Colliders, New York, U.S.A., 1994. *An Analog Pipeline Readout Module for Calorimetry at LHC*, published in Conference Proceeding (1994) 189-201.

30. (Invited) Real-time Computer Applications in Nuclear, Particle and Plasma Physics, Vancouver, Canada, 1993. *The Application of Transputers in the ZEUS Experiment*, published in Conference Record (1993) 458-466.
31. (Invited) Canadian Association of Physicists Congress, Vancouver, Canada, 1993.
 - a. *First Results from ZEUS*,
 - b. *Pipeline Readout for RD3/ATLAS*.
32. Lake Louise Winter Institute, Lake Louise, Canada, 1993. *Physics with ZEUS and H1 at HERA*, presented lectures for J.F. Martin who became sick.
33. Computing in High Energy Physics, Annecy, France, 1992. *Initial Experience with the ZEUS Central Tracking Detector Second Level Trigger and Data Acquisition System*, published in CERN Yellow Report 92-07.
34. Second International Workshop on Software Engineering, Artificial Intelligence and Expert Systems for High Energy and Nuclear Physics, L'Agelonde, France, 1992. *Software Tools for Transputer Networks*, published in "New Computing Techniques in Physics Research II", World Scientific Pub. (1992) 209-214.
35. Computing in High Energy Physics, Santa Fe, U.S.A., 1990. *ZEUS Central Tracking Detector Second Level Trigger and Readout Architectures*, published in AIP Con. Proc. 209 (1990) 155-162.
36. Lake Louise Winter Institute, Lake Louise, Canada, 1987. *Observation of Inclusive D_S Production in B Meson Decay*, published in "Selected Topics in Electroweak Interactions", World Scientific Pub. (1987) 396-405.
37. American Physical Society (DPF), Salt Lake City, U.S.A., 1987.
 - a. *Inclusive D_S Meson Production from B Meson Decay*,
 - b. *D and D^* Production in e^+e^- Annihilation*.
38. Canadian Association of Physicists Congress, Toronto, Canada, 1987. *D_S Production in B Meson Decay*.

Contributions to International Workshops

1. Workshop on Physics at LEP2, CERN, Geneva, Switzerland, 1995.
Event Generators for Discovery Physics - Leptoquarks.
2. First Workshop on Electronics for LHC Experiments, Lisbon, 1995.
A Pipeline Controller for the ATLAS Calorimeter.
3. Workshop on the Physics at HERA, DESY, Hamburg, Germany, 1991.
Sensitivity to Leptoquark Detection in ZEUS.
Monte Carlo Generator for Leptoquark Production in Lepton-Proton Collisions.

Academic Experience

University of Alberta, Department of Physics (1993-present).

- String phenomenology.
- Black hole production and decay in higher dimensions.
- The ATLAS Experiment at the Large Hadron Collider.
- Studied the effects of radiation on digital electronics.
- Gamma-ray astronomy with the Solar Tower Atmospheric Cherenkov Effect Experiment - STACEE.
- Designed pipeline readout electronics for the liquid argon calorimeter of the ATLAS detector at Large Hadron Collider.
- Searched for leptoquarks in electron-positron annihilations with the OPAL detector at the LEP II collider.
- Searched for leptoquarks in electron-proton collisions with the ZEUS detector at the HERA collider.

University of Oxford, Department of Particle & Nuclear Physics (1988-1993).

- Developed the trigger for the central tracking detector of the ZEUS experiment at the electron-proton collider HERA.
- Programmed multi-processor transputer systems for real-time trigger applications in the occam programming language.
- Wrote simulation software for the central tracking detector, and its associated trigger and electronics.

University of Toronto, Department of Physics (1983-1988).

- Researched electron-positron hadronic interactions at 10 GeV centre-of-mass energy with the ARGUS spectrometer at DESY.
- Studied D_s production in B-meson decay (thesis and publication in Physics Letters).
- Managed a VAX 11/780 computer system and developed online computer interface and network communication software.

University of Toronto, Department of Physics (summer 1981; 1982-1983).

- Researched charm hadrons and strong interactions using a high energy photon beam with E516 at Fermilab.
- Studied the resolution and efficiency of a proton recoil detector.
- Managed high energy physics software and converted programs running on a CDC computer to run a VAX computer.

Engineering Experience

Experience with Computer Aided Design tools for field programmable gate arrays and application specific integrated circuit designs.

CAE Electronics Ltd., Montreal, Power Systems Dept. (Sept.-Dec. 1980).

- Designed, coded, and tested Bruce-A nuclear generating station electromagnetic equipment models for the training simulator.
- Simulated the emergency transfer scheme and the standby generators.

Ontario Hydro, Toronto.

- Nuclear Studies & Safety Dept., Radiation Protection (Jan.-Apr. 1980).
 - Developed a model for the evaluation of the radiological consequences from a release of airborne radioactive material under accident conditions.
- Nuclear Studies & Safety Dept., Thermal-Hydraulics (Sept.-Dec. 1979).
 - Performed analysis in thermalhydraulics.
 - Handled code development, model implementation and analysis of specific problems related to CANDU reactors.
- Fuel & Physics Dept., Analysis Section (Jan.-Apr. 1979).
 - Developed a simulation computer model to predict reactor channel flows and critical channel powers for the Bruce-A nuclear generating station.

University of Waterloo, Dept. of Chemical Eng. (May-Aug. 1978).

- Pilot plant testing of a low energy wet scrubber design.
- Iso-kinetic sampling of gaseous emissions.

TEACHING

Students Supervised at the University of Alberta

1. Fairhurst Lyons (2019-) M.Sc., Department of Physics.
2. Haojie Ni (2019-) M.Sc., Department of Physics.
3. Pourya Vakilipourtakalou (2017-2019) M.Sc., Department of Physics.
Now with Department of Computer Science, University of Alberta.
4. Sina Safarabadi Farahani (2017-2019) M.Sc., Department of Physics.
Now PhD student University of Alberta.
5. Aatif Butt (2010-16) Ph.D., Department of Physics.
Now at National Centre for Physics (NCP) Pakistan.
6. Asif Saddique (2009-14) Ph.D., Department of Physics.
Now at National Centre for Physics (NCP) Pakistan.
7. Kingsley Emelideme (2011-13) MSc., Department of Physics.
Now with Alberta Investment Management Corp.
8. Hossain Ahmed (2005-9) Ph.D., Department of Physics.
Now Assistant Professor St. Francis Xavier University.
9. Sang He Han (2005-2008) M.Sc., Department of Physics.
10. Daniel Wakeford (2003-5) M.Sc., Department of Physics.
Now with Bubble Technology Industries.
11. Kaston Leung (2002-5) M.Sc., Department of Electrical and Computer Engineering.
Now PhD student at University of British Columbia.
12. Li Chen (2000-4) Ph.D., Department of Electrical and Computer Engineering.
Now Assistant Professor at University of Saskatchewan.
13. Norman Buchanan (1999-2003) Ph.D., Department of Physics.
Now Assistant Professor Louisiana State University.
14. Claudiu Cojocar (2001-2) Ph.D., Department of Physics.
Became Ph.D. student at Carlton University.
15. Dawn Macdonald (1998-2000) M.Sc., Department of Physics.
Took medical leave and then left graduate program.
16. Daniel MacQueen (1997-2000) M.Sc., Department of Physics.
Now Ph.D. student at University of Toronto.
17. Philip Kayal (1996-8) Ph.D., Department of Physics.
Now Director of Reflections Research Inc, Victoria.
18. Norman Buchanan (1996-8) M.Sc., Department of Physics.
19. Trevor Nickle (1995-7) M.Sc., Department of Physics.
Now teacher in Alberta.
20. Philip Kayal (1994-6) M.Sc., Department of Physics.
21. Kevin Klapstein (1994-5) Ph.D., Department of Physics.
Became Ph.D. student at University of California.

Students Supervised at the University of Oxford

1. Alex Byrne (1991-94) M.Sc. & D.Phil., Department of Particle & Nuclear Physics.
Now employed at Oxford Magnets, UK.
2. Jon Butterworth (1989-92) M.Sc. & D.Phil., Dep. of Particle & Nuclear Physics.
Now Group Leader at University College London.

Student Examination Committees

1. Pawel Mekarski	(2013-)	Ph.D.,	Department of Physics, Alberta
2. Samina Jabbar	(2012-17)	Ph.D.,	Department of Physics, Alberta
3. M. Malehmir	(2012-)	Ph.D.,	Department of Physics, Alberta
4. Kevin Chan	(2007-)	Ph.D.,	Department of Physics, Alberta
5. Wei-yuan Ting	(2000-)	Ph.D.,	Department of Physics, Alberta
6. Chris Howard	(2005-10)	Ph.D.,	Department of Physics, Alberta
7. Yushu Yao	(2002-08)	Ph.D.,	Department of Physics, Alberta
8. Ernest Jankowski	(2000-05)	Ph.D.,	Department of Physics, Alberta
9. Andrei Gaponenko	(2000-05)	Ph.D.,	Department of Physics, Alberta
10. Marko Mah	(1999-05)	Ph.D.,	Department of Physics, Alberta
11. M. Belovn	(2000-04)	Ph.D.,	Department of Physics, Alberta
12. R. Hossain	(1997-01)	Ph.D.,	Department of Physics, Alberta
13. El Aaoud El Hassan	(1995-00)	Ph.D.,	Department of Physics, Alberta
14. Farook Al-Shamali	(1994-98)	Ph.D.,	Department of Physics, Alberta
15. Richard Soluk	(1988-98)	Ph.D.,	Department of Physics, Alberta
16. Mahar Qurann	(1993-96)	Ph.D.,	Department of Physics, Alberta
17. Alick Macpherson	(1992-96)	Ph.D.,	Department of Physics, Alberta
18. Catherine Bina	(2015-18)	M.Sc.,	Department of Physics, Alberta
19. R. Chouinard	(2011-13)	M.Sc.,	Department of Physics, Alberta
20. Evan Bianco	(2005-08)	M.Sc.,	Department of Physics, Alberta
21. Kevin Chan	(2005-07)	M.Sc.,	Department of Physics, Alberta
22. Aditya Saha	(2002-05)	M.Sc.,	Department of Physics, Alberta
23. G. Solano	(2003-04)	M.Sc.,	Department of Physics, Alberta
24. Andrew Johonston	(2001-02)	M.Sc.,	Department of Physics, Alberta
25. Rob MacDonald	(1999-02)	M.Sc.,	Department of Physics, Alberta
26. F. Sobratee	(1997-98)	M.Sc.,	Department of Physics, Alberta
27. Dugan O'Neil	(1994-96)	M.Sc.,	Department of Physics, Alberta
28. Reza Paiam	(1994-97)	Ph.D.,	Electrical Engineering, Alberta
29. M.W.M. Yiu	(2003-06)	M.Sc.	Electrical Engineering, Alberta
30. Lin Fu	(2002-04)	M.Sc.,	Electrical Engineering, Alberta
31. Christian Giasson	(2001-04)	M.Sc.,	Electrical Engineering, Alberta
32. Sue Ann Ung	(2001-03)	M.Sc.,	Electrical Engineering, Alberta
33. Yu Nan Xiang	(1999-02)	M.Sc.,	Electrical Engineering, Alberta
34. Hongfan Wang	(1999-00)	M.Sc.,	Electrical Engineering, Alberta
35. Yiu Chan	(1995-97)	M.Sc.,	Electrical Engineering, Alberta
36. Tom Seniuk	(1992-94)	M.Sc.,	Electrical Engineering, Alberta
37. Cheng Hu	(2003-05)	M.Sc.,	Computer Science, Alberta
38. Richard Teuscher	(1990-96)	Ph.D.,	Department of Physics, Toronto
39. C. Zhou	(2010)	Ph.D.,	Department of Physics, McGill
40. Ling-Wai Hung	(1991-97)	Ph.D.,	Department of Physics, McGill
41. Kostas Kordas	(1991-93)	M.Sc.,	Department of Physics, McGill

Graduate Course

- PHYS 673, Real-time Computing and Experiment Data Acquisition, 1996.
- PHYS 590, Particle Physics II - Gauge Theories, 1997, 2009.
- PHYS 547, Particle Detectors, 2012.
- PHYS 530, Statistical Mechanics, 2011-12.

- PHYS 524, Classical Electrodynamics, 2018-2019.
- PHYS 512, Advanced Quantum Mechanics II, 2001, 2003-05.

Undergraduate Teaching

University of Alberta

- PHYS 499, Special Projects: J. Patel 2018, A. MacPherson 2017, M. Elgie 2016, D. Podkowka 2015, Zihui Want 2015, B. Ewanchuk 2013, K. Martell 2009, M. Larocque 2004, C. Bostik 1998, K. Reil 1997, H. Olsen 1996, A. Kwan 1995, T. Nickle 1995.
- PHYS 493, Instrumentation B: K. Reil 1997, A. Kwan, 1995.
- PHYS 485, Introductory Particle Physics, 2008-10.
- PHYS 397, Projects in Experimental Physics, 2001.
- PHYS 395, Electronics, 1994-98.
- PHYS 372, Quantum Mechanics A, 2006.
- PHYS 234, Introductory Computational Physics, 2015
- PHYS 200, Relativistic Aspects of Modern, 2005.
- PHYS 124, Particles and Waves, 2002-03.
- PHYS 105, Introduction General Physics I (mechanics), 1993-94.
- ENPH 131, Engineering Mechanics, 2016-18.
- NSERC summer students: B. Undseth 2018, D. Wandler 2017, Y.T. Bai 2013, B.J. Jung 2011, J. Hutchinson 2010, S. Marcu, 2008, K. Martell 2007-8, H. Clark 2006, T. Martin 2004, D. Gish 2002-3, K. Stevens 2001, D. MacQueen 1995, A. Kwan 1993-94, C. Tran 1994.
- Summer students: V. Mackay 2017, J. Edwards 2015, S. Sevova 2012, R. Pavelich 2012, K. Martel 2009, H. Clark 2005, D. Wakeford 2003, W. Syed 2002, L. Chen 2000, A. Murphy 1998, K. Reil 1997, R. Zemp 1997, N. Buchanan 1996, B. Hunter 1996, P. Kayal 1994.

University of Oxford (Hertford College) (undergraduate studies run at 3 levels)

- 3rd year: electromagnetism, and nuclear and particle physics, 1988-92.
- 2nd year: electromagnetism, optics, and nuclear and particle physics, 1988-92.
- 1st year: mathematics, 1988-92.

University of Toronto

- tutored first year physics 1982-1984 and Drop-in Tutoring Centre 1987.

University of Waterloo

- tutored first year physics 1978-1980 and Drop-in Tutoring Centre 1980-1982.

Postdoctoral Fellows and Research Associates Co-Supervised

J. Biswal	Postdoctoral Fellow	University of Alberta
M. Villaplana	Postdoctoral Fellow	University of Alberta
X. Sun	Postdoctoral Fellow	University of Alberta (now Postdoctoral Fellow at University of Manchester)
H. Wang	Postdoctoral Fellow	University of Alberta (now at University of Wuhan)
J. Dassoulos	Postdoctoral Fellow	University of Alberta
M. Cardaci	Postdoctoral Fellow	University of Alberta
P. Czodrowski	Postdoctoral Fellow	University of Alberta
F. Vives	Postdoctoral Fellow	University of Alberta
A. Sbrizzi	Contractor	University of Alberta
S. Subramania	Postdoctoral Fellow	University of Alberta

S. Bahinipati	Postdoctoral Fellow	University of Alberta (now Assistant Professor at Indian Institute of Technology (IIT), Bhubaneswar)
N. Soni	Research Associate	University of Alberta
M. Kim	Research Associate	University of Alberta
S. Iqbal	Research Associate	University of Alberta
R. Hakobyan	Research Associate	University of Alberta
Jiansen Lu	Research Associate	University of Alberta (started 2005)
Richard Soluk	Research Associate	University of Alberta (started 2001)
Shengli Liu	Research Associate	University of Alberta (2001-4)
Sarah Wheeler	Research Associate	University of Alberta (2001-4)
Bo Zhang	Research Associate	University of Alberta (2001-2)
Alick Macpherson	Research Associate	University of Alberta (1996-2000)
W. Springer	Research Associate	University of Alberta
H. Przysieznik	Research Associate	University of Alberta
P. Routenberg	Research Associate	University of Alberta

ADMINISTRATIVE AND SERVICE EXPERIENCE**University Service**

Association of Academic Staff University of Alberta	2009-13
Academic Faculty Committee	2009-10
University President Review Committee	2009
Dean of Science Selection Committee	2008

Faculty of Science Service

Engineering Faculty Council	2009 -11
CCIS Building Committee	2004-09
Chair of Physics Selection Committee	2004

Department of Physics Service

Graduate Awards Committee	2017-20
Graduate Affairs Committee	2016-17
Director of the Centre for Particle Physics	2004-13
Department Planning Committee	2006-13
Mentorship Committee	2007-13
Space Committee	2009-13
Move-in CCIS Committee	2009-13
CCIS Building Physics Committee	2004-08
Scholarship and Awards Evaluation Committee	2007-08
Director of the Centre for Subatomic Research	2004-06
Coordinator Subatomic Physics Research Focus Group	2001-04
Computing Planning Committee	2002-03
Computing Operations Committee	2002-03
Review of Undergraduate Laboratories	2001-02
Graduate Affairs Committee	2001-02
Computing Committee (chair)	1997-99
Graduate Affairs Committee	1997-98
Physics Education, Research & Management Committee	1996-97
Long Term Physics Planning Committee	1995-96
Physics Service Courses Committee	1994-95
Advisory Selection Committee (chair) (Astroparticle)	2007-08
Advisory Selection Committee (chair) (CRC Subatomic)	2005-06
Advisory Selection Committee (chair) (Subatomic)	2005-06
Advisory Selection Committee (CRC Subatomic)	2003-04
Advisory Selection Committee (chair) (Subatomic)	2003
Advisory Selection (CRC Space Physics)	2002
Advisory Selection (CRC Condensed Matter)	2002
Advisory Selection Committee (Subatomic)	2001
Advisory Selection Committee (Geophysics)	2001
Advisory Selection Committee (Cosmology)	1998-99
Advisory Selection Committee (Subatomic)	1998

Service in Particle Physics

MRS	Ontario Ministry of Research and Innovation	2008
ECCTD	European Conference on Circuit Theory and Design	2008
TRIUMF	Search and Hiring Committee (twice)	2007

TRIUMF	Carl H. Westcott Fellowship Committee (chair)	2002-2013
TRIUMF	Operating Committee	2002-07
IRCSET	Irish EMBARK Initiative Reviewer (Astrophysics)	2005
NSF	Particle Astrophysics Proposals Reviewer	2004, 2008-9
IPP	Institute of Particle Physics Institutional Proxy	2003 to present
IPP	Research Scientist tenure review (chair)	2005-06
IPP	IPP co-chair for TRIUMF director search	2000
IPP	Research Scientist tenure review	1999-00
IPP	Institute of Particle Physics Council	1998-01, 2012-16
NSERC	Subatomic Physics Reviewer	2006, 2002
NSERC	Subatomic Physics BaBar Review Committee	1995-96
APS	Advisory Committee for the 1997 DPF Conf.	1997
ATLAS	TeV-Scale Gravity Group Co-convenor	2007-09
ATLAS	Radiation Steering Committee	2000-01
ATLAS	Electronics Steering Committee	1994-01
ATLAS-Canada	Deputy Spokesperson	2006-09
ATLAS-Canada	Acting Spokesperson (10-23 July)	2007
ATLAS-Canada	Spokesperson Election Committee	2007
ATLAS-Canada	By-laws Committee	2007

Book Publisher Referee

- Taylor and Francis (Particle Physics Book – proposal)
- Pearson Prentice Hall (Electronics Textbook – new edition)

Journal Referee

- International Journal of Theoretical Physics
- Physics Letters B
- The European Physical Journal C
- Journal of High Energy Physics
- Universe
- Entropy
- Symmetry
- Physical Review & Research International
- Astrophysics and Space Science (Springer)
- Measurement Science and Technology (IOP)
- Semiconductor Science and Technology (IOP)
- IEEE Transactions on Circuits and Systems II
- IEEE Transactions on Nuclear Science
- Nuclear Instruments and Methods in Physics Research, Section A
- Canadian Journal of Physics

REFERENCES

Dr. Robert S. Orr, Professor
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Dr. Richard Keeler, Professor
Department of Physics and Astronomy
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Year	PI	Alberta	Total
2020-21	\$ 1,387,495	\$ 295,000	\$ 6,300,000
2019-20	\$ 1,376,079	\$ 262,000	\$ 6,200,000
2018-19	\$ 1,324,194	\$ 252,000	\$ 7,172,194
2017-18	\$ 232,000	\$ 232,000	\$ 39,447,533
2016-17	\$ 370,000	\$ 370,000	\$ 6,120,000
2015-16	\$ 284,000	\$ 284,000	\$ 5,400,000
2014-15	\$ 390,000	\$ 390,000	\$ 6,335,000
2013-14	\$ 390,000	\$ 390,000	\$ 7,916,948
2012-13	\$ 464,874	\$ 837,371	\$ 6,071,371
2011-12	\$ 426,000	\$ 772,000	\$ 6,655,000
2010-11	\$ 392,000	\$ 640,770	\$ 6,247,770
2009-10	\$ 432,000	\$ 687,200	\$ 5,591,200
2008-09	\$ 387,000	\$ 617,000	\$ 4,724,000
2007-08	\$ 334,240	\$ 504,240	\$ 4,405,000
2006-07	\$ 270,000	\$ 440,000	\$ 3,510,000
2005-06	\$ 704,000	\$ 874,000	\$ 14,466,837
2004-05	\$ 481,000	\$ 675,600	\$ 3,177,600
2003-04	\$ 301,700	\$ 811,700	\$ 3,810,200
2002-03	\$ 117,650	\$ 577,650	\$ 4,166,827
2001-02	\$ 104,000	\$ 573,371	\$ 3,536,703
2000-01	\$ 167,000	\$ 710,020	\$ 6,386,000
1999-00	\$ 216,410	\$ 771,900	\$ 6,261,000
1998-99	\$ 155,400	\$ 702,400	\$ 4,673,900
1997-98	\$ 112,000	\$ 649,600	\$ 4,114,000
1996-97		\$ 623,550	\$ 2,970,000
1995-96		\$ 643,300	\$ 3,033,600
1994-95	\$ 13,287	\$ 648,787	\$ 4,278,816
1993-94	\$ 137,526	\$ 273,169	\$ 1,428,526
1992-93	\$ 90,000	\$ 90,000	\$ 90,000
<i>Total</i>	\$ 11,059,855	\$ 15,598,628	\$ 184,490,025

Year	Period	Amount	Agency	Title	PI	Group
2020-21	Apr/20 Apr/21	\$ 6,300,000	NSERC	ATLAS operating	P. Kregier	38
		\$ 295,000	NSERC		D.M. Gingrich	2
	Apr/20 Apr/21	\$ 1,092,495	CC	Resouce allocation	D.M. Gingrich	3
2019-20	Apr/19 Apr/20	\$ 6,200,000	NSERC	ATLAS operating	P. Kregier	38
		\$ 262,000	NSERC		D.M. Gingrich	2
	Apr/19 Apr/20	\$ 1,114,079	CC	Resouce allocation	D.M. Gingrich	3
2018-19	Apr/18 Apr/19	\$ 6,100,000	NSERC	ATLAS operating	P. Kregier	38
	Apr/18 Apr/19	\$ 252,000	NSERC		D.M. Gingrich	2
	Apr/18 Apr/19	\$ 1,072,194	CC	Resouce allocation	D.M. Gingrich	3
2017-18	Apr/17 Apr/18	\$ 6,000,000	NSERC	ATLAS operating	P. Kregier	38
		\$ 232,000			D.M. Gingrich	3
	Apr/17 Apr/18	\$ 193,000	NSERC	ATLAS RTI	P. Kregier	38
	Aug/17 Aug/22	\$ 29,754,533	CFI	ATLAS upgrades	P. Kregier	10
	Aug/17 Aug/22	\$ 3,500,000	CFI	ATLAS Tier-1 SFU	M. Vetterli	10
2016-17	Apr/16 Apr/17	\$ 5,900,000	NSERC	ATLAS operating	P. Kregier	38
		\$ 370,000			D.M. Gingrich	3
	Apr/16 Apr/17	\$ 220,000	NSERC	ATLAS RTI	P. Kregier	38
2015-16	Apr/15 Apr/16	\$ 5,400,000	NSERC	ATLAS operating	R.A. McPherson	38
		\$ 284,000			D.M. Gingrich	3
2014-15	Apr/14 Apr/15	\$ 5,760,000	NSERC	ATLAS operating	R.A. McPherson	37
		\$ 390,000			D.M. Gingrich	3
	Apr/14 Apr/15	\$ 575,000	NSERC	ATLAS RTI	R.A. McPherson	37
2013-14	Apr/13 Apr/14	\$ 5,506,948	NSERC	ATLAS operating	R.A. McPherson	37
		\$ 390,000			D.M. Gingrich	3
	Apr/13 Apr/14	\$ 410,000	NSERC	ATLAS RTI	R.A. McPherson	34
	Jan/13 Jan/14	\$ 2,000,000	CFI	Tier-1 TRIUMF	M. Vetterli	10
2012-13	Apr/12 Apr/13	\$ 5,679,000	NSERC	ATLAS operating	R.A. McPherson	37
		\$ 445,000			D.M. Gingrich	3
	Apr/12 Apr/13	\$ 19,874	NSERC	ATLAS MRS	D.M. Gingrich	1
	Apr/12 Apr/13	\$ 16,497	NSERC	Computing RTI	D. Grant	6
	Apr/12 Apr/13	\$ 356,000	NSERC	Infrastructure	J.L. Pinfeld	10
2011-12	Apr/11 Apr/12	\$ 5,600,000	NSERC	ATLAS operating	R.A. McPherson	43
		\$ 426,000			D.M. Gingrich	4
	Apr/11 Apr/12	\$ 235,000	NSERC	ATLAS MRS	R.A. McPherson	11
	Apr/11 Apr/12	\$ 60,000	NSERC	ATLAS upgrades	R.A. McPherson	33
	Apr/11 Apr/12	\$ 474,000	NSERC	ATLAS HLT	B.M. Vachon	33
	Apr/11 Apr/12	\$ 346,000	NSERC	Infrastructure	J.L. Pinfeld	10

Year	Period	Amount	Agency	Title	PI	Group
2010-11	Apr/10 Apr/11	\$ 5,300,000	NSERC	ATLAS operating	R.A. McPherson	43
		\$ 347,000			D.M. Gingrich	4
	Apr/10 Apr/11	\$ 225,000	NSERC	ATLAS MRS	R.A. McPherson	11
		\$ 45,000			D.M. Gingrich	1
	Apr/10 Apr/11	\$ 120,000	NSERC	ATLAS upgrades	R.A. McPherson	33
	Apr/10 Apr/11	\$ 474,000	NSERC	ATLAS HLT	B.M. Vachon	33
	Apr/10 Apr/11	\$ 248,770	NSERC	Infrastructure	J.L. Pinfold	7
2009-10	Apr/09 Apr/10	\$ 4,800,000	NSERC	ATLAS operating	R.A. McPherson	43
		\$ 388,000			D.M. Gingrich	4
	Apr/09 Apr/10	\$ 220,000	NSERC	ATLAS MRS	R.A. McPherson	11
		\$ 44,000			D.M. Gingrich	1
	Apr/09 Apr/10	\$ 316,000	NSERC	ATLAS HLT	B.M. Vachon	33
	Apr/10 Apr/11	\$ 16,000	NSERC	Computing RTI	R.W. Moore	5
	Apr/09 Apr/10	\$ 239,200	NSERC	Infrastructure	J.L. Pinfold	7
2008-09	Apr/08 Apr/09	\$ 4,100,000	NSERC	ATLAS operating	R.A. McPherson	43
		\$ 387,000			D.M. Gingrich	3
	Apr/08 Apr/09	\$ 78,000	NSERC	ATLAS upgrades	R.A. McPherson	33
	Apr/08 Apr/09	\$ 316,000	NSERC	ATLAS HLT	B.M. Vachon	33
	Apr/08 Apr/09	\$ 230,000	NSERC	Infrastructure	J.L. Pinfold	7
2007-08	Apr/07 Apr/08	\$ 260,000	NSERC	ATLAS RTI	R.S. Orr	25
	Apr/07 Apr/08	\$ 375,000	NSERC	ATLAS CtoC	R.S. Orr	25
	Apr/07 Apr/08	\$ 3,600,000	NSERC	ATLAS operating	R.S. Orr	33
		\$ 334,240			D.M. Gingrich	3
	Apr/07 Apr/08	\$ 170,000	NSERC	Infrastructure	J.L. Pinfold	8
2006-07	Apr/06 Apr/07	\$ 260,000	NSERC	ATLAS RTI	R.S. Orr	25
	Apr/07 Apr/08	\$ 375,000	NSERC	ATLAS CtoC	R.S. Orr	25
	Apr/06 Apr/07	\$ 2,670,000	NSERC	ATLAS operating	R.S. Orr	33
		\$ 270,000			D.M. Gingrich	3
	Apr/06 Apr/07	\$ 35,000	NSERC	STACEE	K.J. Ragan	3
	Apr/06 Apr/07	\$ 170,000	NSERC	Infrastructure	J.L. Pinfold	8
2005-06	Apr/05 Apr/06	\$ 12,000	NSERC	Radiation	D.M. Gingrich	1
	Apr/05 Apr/06	\$ 395,000	NSERC	ATLAS Tools	D.M. Gingrich	24
	Apr/05 Apr/06	\$ 2,250,000	NSERC	ATLAS operating	R.S. Orr	33
		\$ 297,000			D.M. Gingrich	3
	Apr/05 Apr/06	\$ 170,000	NSERC	ATLAS RTI	R.S. Orr	25
	Apr/05 Apr/06	\$ 750,000	NSERC	ATLAS CtoC	R.S. Orr	
	Apr/05 Apr/06	\$ 90,000	NSERC	STACEE	K.J. Ragan	3
	Apr/05 Apr/06	\$ 170,000	NSERC	Infrastructure	J.L. Pinfold	8
		\$ 10,629,837			M. Vetterli	8

Year	Period	Amount	Agency	Title	PI	Group
2004-05	Apr/04 Apr/05	\$ 200,000	NSERC	STACEE	K.J. Ragan	3
		\$ 10,000			D.M. Gingrich	1
	Apr/04 Apr/05	\$ 414,000	NSERC	ATLAS MIG	R.S. Orr	33
	Apr/04 Apr/05	\$ 173,000	NSERC	ATLAS tools	D.M. Gingrich	24
	Apr/04 Apr/05	\$ 16,000	NSERC	Beam Monitoring	W. Trischuk	32
	Apr/04 Apr/05	\$ 1,990,000	NSERC	ATLAS operating	R.S. Orr	25
		\$ 278,000	NSERC		D.M. Gingrich	3
	Jan/04 Jan/05	\$ 24,600	NSERC	IOF	J.L. Pinfold	3
	Apr/04 Apr/05	\$ 170,000	NSERC	ATLAS RTI	R.S. Orr	25
	Apr/04 Apr/05	\$ 20,000	NSERC	Computing equip	D.M. Gingrich	8
	Apr/04 Apr/05	\$ 170,000	NSERC	Infrastructure	J.L. Pinfold	8
2003-04	Apr/03 Apr/04	\$ 112,500	NSERC	STACEE	D.S. Hanna	3
		\$ 20,000			D.M. Gingrich	1
	Apr/03 Apr/04	\$ 2,020,000	NSERC	ATLAS operating	R.S. Orr	25
		\$ 304,000	NSERC		J.L. Pinfold	4
	Apr/03 Apr/04	\$ 520,000	NSERC	ATLAS MIG	R.S. Orr	33
		\$ 275,000			D.M. Gingrich	5
	Apr/03 Apr/04	\$ 440,000	NSERC	ATLAS RTI	R.S. Orr	25
	Apr/03 Apr/04	\$ 505,000	NSERC	ATLAS MIG2	R.S. Orr	33
	Feb/03 Aug/03	\$ 2,800	CMC	Fabrication space	D.M. Gingrich	2
	Feb/03 Aug/03	\$ 3,900	CMC	Fabrication space	D.M. Gingrich	1
	Apr/03 Apr/04	\$ 206,000	NSERC	Infrastructure	J.L. Pinfold	10
2002-03	Apr/02 Apr/03	\$ 112,500	NSERC	STACEE	D.S. Hanna	3
		\$ 16,000			D.M. Gingrich	1
	Apr/02 Apr/03	\$ 2,030,180	NSERC	ATLAS operating	R.S. Orr	30
		\$ 259,000			J.L. Pinfold	5
	Apr/02 Apr/03	\$ 132,997	NSERC	STACEE equipment	K.J. Ragan	3
	Apr/02 Apr/03	\$ 388,000	NSERC	ATLAS MIG	R.S. Orr	33
		\$ 91,000			D.M. Gingrich	6
	Apr/02 Apr/03	\$ 1,200,000	NSERC	ATLAS MIG2	R.S. Orr	33
	Oct/02 Apr/03	\$ 5,550	CMC	Fabrication space	D.M. Gingrich	1
	May/02 Oct/02	\$ 5,100	CMC	Fabrication space	D.M. Gingrich	1
2001-02	Jul/02 Jul/03	\$ 91,500	CMC	Computing equip	D. Elliott	19
	Apr/02 Apr/03	\$ 201,000	NSERC	Infrastructure	J.L. Pinfold	10
	Apr/01 Apr/02	\$ 55,000	NSERC	STACEE	D.S. Hanna	3
		\$ 4,000			D.M. Gingrich	1
	Apr/01 Apr/02	\$ 1,590,000	NSERC	ATLAS operating	R.S. Orr	30
		\$ 268,371			J.L. Pinfold	5
	Apr/01 Apr/02	\$ 1,496,000	NSERC	ATLAS MIG	R.S. Orr	33
		\$ 100,000			D.M. Gingrich	6
	Apr/01 Apr/02	\$ 75,000	NSERC	ATLAS MIG2	R.S. Orr	33
	Jul/01 Jul/02	\$ 119,703	CMC	Test equipment	B.F. Cockburn	11
	Apr/01 Apr/02	\$ 201,000	NSERC	Infrastructure	J.L. Pinfold	10

Year	Period	Amount	Agency	Title	PI	Group
2000-01	Apr/00 Apr/01	\$ 1,255,000	NSERC	OPAL	R.K. Carnegie	27
		\$ 128,550			J.L. Pinfold	4
	Apr/00 Apr/01	\$ 1,550,000	NSERC	ATLAS operating	R.S. Orr	30
		\$ 218,470			J.L. Pinfold	5
	Apr/00 Apr/01	\$ 17,000	NSERC	STACEE equipment	D.M Gingrich	3
	Apr/00 Apr/01	\$ 55,000	NSERC	STACEE operating	D.S.Hanna	3
	Apr/00 Apr/01	\$ 3,188,000	NSERC	ATLAS MIG	R.S. Orr	33
		\$ 150,000			D.M Gingrich	6
	Apr/00 Apr/01	\$ 125,000	NSERC	ATLAS MIG2	R.S. Orr	33
	Apr/00 Apr/01	\$ 196,000	NSERC	Infrastructure	J.L. Pinfold	10
1999-00	Apr/99 Apr/00	\$ 1,474,000	NSERC	OPAL	R.K. Carnegie	27
		\$ 153,890			J.L. Pinfold	4
	Apr/99 Apr/00	\$ 1,260,000	NSERC	ATLAS operating	R.S. Orr	30
		\$ 210,600			J.L. Pinfold	5
	Apr/99 Apr/00	\$ 55,000	NSERC	STACEE	D.S. Hanna	3
		\$ 10,000			D.M Gingrich	1
	Jun/99 Jun/00	\$ 5,000	CSR	STACEE	D.M Gingrich	1
	Jul/99 Jul/00	\$ 5,000	VP Res.	STACEE	D.M Gingrich	1
	Apr/99 Apr/00	\$ 3,208,000	NSERC	ATLAS MIG	R.S. Orr	33
		\$ 196,410			D.M Gingrich	6
	Apr/99 Apr/00	\$ 63,000	NSERC	ATLAS MIG2	R.S. Orr	33
	Apr/99 Apr/00	\$ 191,000	NSERC	Infrastructure	J.L. Pinfold	10
1998-99	Apr/98 Apr/99	\$ 1,460,000	NSERC	OPAL	R.K. Carnegie	27
		\$ 150,300			J.L. Pinfold	4
	Apr/98 Apr/99	\$ 1,391,500	NSERC	ATLAS operating	R.S. Orr	27
		\$ 216,700			J.L. Pinfold	5
	Apr/98 Apr/99	\$ 1,623,000	NSERC	ATLAS MIG	R.S. Orr	32
		\$ 136,000			D.M Gingrich	5
	Apr/98 Apr/99	\$ 19,400	NSERC	Computing	D.M Gingrich	11
	Apr/98 Apr/99	\$ 180,000	NSERC	Infrastructure	J.L. Pinfold	12
1997-98	May/97 Apr/98	\$ 1,750,000	NSERC	OPAL	R.K. Carnegie	32
		\$ 220,600			J.L. Pinfold	4
	May/97 Apr/98	\$ 800,000	NSERC	ATLAS operating	R.S. Orr	32
		\$ 137,000			J.L. Pinfold	5
	May/97 Apr/98	\$ 1,384,000	NSERC	ATLAS MIG	R.S. Orr	32
		\$ 112,000			D.M Gingrich	5
	Apr/97 Apr/98	\$ 180,000	NSERC	Infrastructure	J.L. Pinfold	12

Year	Period	Amount	Agency	Title	PI	Group
1996-97	May/96 Apr/97	\$ 25,000	University	Industrial Liason	J.L. Pinfold	2
	May/96 Apr/97	\$ 1,950,000	NSERC	OPAL	R.K. Carnegie	32
		\$ 230,550			J.L. Pinfold	4
	May/96 Apr/97	\$ 780,000	NSERC	ATLAS	R.S. Orr	32
		\$ 153,000			J.L. Pinfold	8
	May/96 Apr/97	\$ 20,000	NSERC	Computing	L.G. Greenius	12
	Apr/96 Apr/97	\$ 195,000	NSERC	Infrastructure	J.L. Pinfold	12
1995-96	Jun/95 Dec/95	\$ 5,000	CRF	Equipment	J.L. Pinfold	2
	May/95 Apr/96	\$ 2,339,400	NSERC	OPAL	R.K. Carnegie	32
		\$ 287,100			J.L. Pinfold	4
	May/95 Apr/96	\$ 400,000	NSERC	ATLAS	R.S. Orr	34
		\$ 62,000			J.L. Pinfold	8
	May/95 Apr/96	\$ 289,200	NSERC	Infrastructure	P. Kitching	12
1994-95	Sep/94 Apr/95	\$ 30,000	IPP	ATLAS	M. Lefebvre	23
		\$ 4,000			J.L. Pinfold	7
	May/94 Apr/95	\$ 320,000	NSERC	Infrastructure	P. Kitching	12
	May/94 Apr/95	\$ 2,303,529	NSERC	OPAL	R.K. Carnegie	32
		\$ 201,500			J.L. Pinfold	4
	May/94 Apr/95	\$ 1,250,000	NSERC	ZEUS	J. Martin	10
		\$ 8,000			D.M Gingrich	1
	May/94 Apr/95	\$ 370,000	NSERC	ATLAS	M. Lefebvre	23
		\$ 110,000			J.L. Pinfold	7
	Jul/94 Mar/95	\$ 3,000	CRF	Equipment	D.M Gingrich	1
1993-94	Jan/94 Sep/95	\$ 2,287	CRF	Travel	D.M Gingrich	1
	May/93 Apr/94	\$ 84,000	NSERC	Alberta-OPAL	J.L. Pinfold	2
	May/93 Apr/94	\$ 1,116,000	NSERC	ZEUS	J.Martin	11
		\$ 9,000			D.M Gingrich	1
	May/93 Apr/94	\$ 20,000	NSERC	Computing	P. Kitching	12
	May/93 Apr/94	\$ 25,000	NSERC	ATLAS	M. Lefebvre	20
		\$ 7,143			J.L. Pinfold	5
	Jan/93 Apr/93	\$ 5,500	IPP	OPAL-ZEUS	D.M Gingrich	1
	Jul/93 Apr/94	\$ 30,000	IPP	ATLAS	M. Lefebvre	20
		\$ 14,500			J.L. Pinfold	5
	Nov/93 Apr/94	\$ 25,000	IPP	ATLAS	M. Lefebvre	20
		\$ 10,000			J.L. Pinfold	5
	Jan/93 Dec/94	\$ 12,000	CRF	Equipment	D.M Gingrich	1
	Jan/93 Jul/94	\$ 1,026	CRF	Travel	D.M Gingrich	1
	Jun/93 Jul/94	\$ 110,000	Science	Startup	J.L. Pinfold	2
1992-93	Jun/92 Jul/93	\$ 90,000	Science	Startup	J.L. Pinfold	2

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1. Douglas M. Gingrich, Brennan Undseth, Quantum black holes in the horizon quantum mechanics model at the Large Hadron Collider, (2020): 2005.02548 [hep-ph].
2. G. Aad *et al.* (ATLAS Collaboration), Measurement of soft-drop jet observables in pp collisions with the ATLAS detector at $\sqrt{s} = 13$ TeV, Physical Review D 101, 052007 (2020): 1912.09837 [hep-ex].
3. G. Aad *et al.* (ATLAS Collaboration), Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector, Journal of High Energy Physics 03 (2020) 179: 1912.09866 [hep-ex].
4. G. Aad *et al.* (ATLAS Collaboration), Search for chargino-neutralino production with mass splitting near the electroweak scale in three-lepton final states in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector, Physical Review D 101, 072001 (2020): 1912.08479 [hep-ex].
5. G. Aad *et al.* (ATLAS Collaboration), Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector, submitted to EPJ (2020): 1912.02844 [hep-ex].
6. G. Aad *et al.* (ATLAS Collaboration), Measurement of the relative B_c^{+-}/B^{+-} production cross section with the ATLAS detector at $\sqrt{s} = 8$ TeV, submitted to PRD (2020): 1912.02672 [hep-ex].
7. G. Aad *et al.* (ATLAS Collaboration), Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector, Physical Review D 101, 052005 (2020): 1911.12606 [hep-ex].
8. G. Aad *et al.* (ATLAS Collaboration), Search for long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer, Physical Review D 101, 052013 (2020): 1911.12575 [hep-ex].
9. G. Aad *et al.* (ATLAS Collaboration), Search for direct stau production in events with two hadronic tau-leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector, Physical Review D 101, 032009 (2020): 1911.06660 [hep-ex].
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11. G. Aad *et al.* (ATLAS Collaboration), Measurement of the azimuthal anisotropy of charged-particle production in Xe + Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV with the ATLAS detector, Physical Review C 101, 024906 (2020): 1911.04812 [hep-ex].
12. G. Aad *et al.* (ATLAS Collaboration), ATLAS data quality operations and performance for 2015-2018 data-taking, Journal of Instrumentation 15 (2020) P04003: 1911.04632 [hep-ex].
13. G. Aad *et al.* (ATLAS Collaboration), Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer, Journal of High Energy Physics 02 (2020) 042: 1911.00453 [hep-ex].

14. G. Aad *et al.* (ATLAS Collaboration), Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{NN}} = 8.16$ TeV p+Pb collisions with the ATLAS detector, The European Physical Journal C (2020) 80:73: 1910.13978 [hep-ex].
15. G. Aad *et al.* (ATLAS Collaboration), Z boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV measured by the ATLAS detector, Physics Letters B 802 (2020) 135262: 1910.13396 [hep-ex].
16. G. Aad *et al.* (ATLAS Collaboration), Measurement of the $t\bar{t}$ production cross-section and lepton differential distribution in $\mu\mu$ dilepton events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector, Physics Letters B 803 (2020) 135341: 1910.09503 [hep-ex].
17. G. Aad *et al.* (ATLAS Collaboration), Measurement of the $t\bar{t}$ production cross-section and lepton differential distribution in $\mu\mu$ dilepton events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector, accepted by EPJC (2020): 1910.08819 [hep-ex].
18. G. Aad *et al.* (ATLAS Collaboration), Search for new resonances in mass distributions of jet pairs using 139 fb⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector, Journal of High Energy Physics 03 (2020) 145: 1910.08447 [hep-ex].
19. G. Aad *et al.* (ATLAS Collaboration), Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector, accepted by EPJC (2020): 1910.04482 [hep-ex].
20. G. Aad *et al.* (ATLAS Collaboration), Measurement of J/psi production in association with a W[±] boson with pp data at 8 TeV, Journal of High Energy Physics 01 (2020) 095: 1909.13626 [hep-ex].
21. G. Aad *et al.* (ATLAS Collaboration), Search for the Higgs boson decays $H \rightarrow e\bar{e}$ and $H \rightarrow \mu\mu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector, Physics Letters B 801 (2020) 135148: 1909.10235 [hep-ex].
22. G. Aad *et al.* (ATLAS Collaboration), Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into b -jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector, submitted to EPJC (2020): 1909.09226 [hep-ex].
23. G. Aad *et al.* (ATLAS Collaboration), Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb⁻¹ of data collected with the ATLAS detector, submitted to JHEP (2020): 1909.08457 [hep-ex].
24. G. Aad *et al.* (ATLAS Collaboration), Combined measurements of Higgs boson production and decay using up to 80 fb⁻¹ of proton-proton collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS experiment, Physical Review D 101, 012002 (2020): 1909.02845 [hep-ex].
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Refereed Publications with the RD3 Collaboration

1005. D.M. Gingrich *et al.* (RD3), Performance of an endcap prototype of the ATLAS accordion electromagnetic calorimeter, Nucl. Inst. & Meth. **A389** (1997) 398-408.
1006. D.M. Gingrich *et al.* (RD3), Performance of a large scale prototype of the ATLAS accordion electromagnetic calorimeter, Nucl. Inst. & Meth. **A364** (1995) 290-306.
1007. D. Gingrich *et al.* (RD3), Performance of the liquid argon electromagnetic and hadronic accordion calorimeter for the LHC, Nucl. Inst. & Meth. **A344** (1994) 39-46.

Plus 4 other publications in refereed journals with RD3 from 1994 to 1998.

Refereed Publications with the OPAL Collaboration

1008. G. Abbiendi *et al.* (OPAL), Search for pair-produced leptoquarks in e^+e^- interactions at $s^{1/2} \sim 183$ GeV, Euro. Phys. Journal **C13** (2000) 15-27.
1009. K. Ackerstaff *et al.* (OPAL), Search for unstable heavy and excited leptons in e^+e^- collisions at $s^{1/2} = 170$ -172 GeV, Euro. Phys. Journal **C1** (1998) 45-64.
1010. K. Ackerstaff *et al.* (OPAL), Search for excited leptons in e^+e^- collisions at $s^{1/2} = 161$ GeV, Phys. Lett. **B391** (1997) 197-209.

Plus 219 other publications in refereed journals with OPAL from 1993 to 2001.

Refereed Publications with the ZEUS Collaboration

1011. M. Derrick *et al.* (ZEUS), A search for excited fermions in electron-proton collisions at HERA, Z. Phys. **C65** (1995) 627-647.
1012. M. Derrick *et al.* (ZEUS), Search for excited electrons using the ZEUS detector, Phys. Lett. **316B** (1993) 207-218.
1013. M. Derrick *et al.* (ZEUS), Search for leptoquarks with the ZEUS detector, Phys. Lett. **306B** (1993) 173-186.

Plus 31 other publications in refereed journals with ZEUS from 1992 to 1996.

Refereed Publications with the ARGUS Collaboration

1014. H. Albrecht *et al.* (ARGUS), Physics with ARGUS, Phys. Rep. **276** (1996) 223-405.
1015. H. Albrecht *et al.* (ARGUS), Observation of $B^0 - \text{anti-}B^0$ mixing, Phys. Lett. **192B** (1987) 245-252.
1016. H. Albrecht *et al.* (ARGUS), Observation of inclusive D_s production in B meson decay, Phys. Lett. **187B** (1987) 425-430.

Plus 46 other publications in refereed journals with ARGUS from 1985 to 1989.

TEACHING AT THE UNIVERSITY OF ALBERTA**Graduate Student Supervision**

F. Lyons	2019-	M.Sc.	Search for string resonances in ATLAS
H. Ni	2019-	M.Sc.	Search for horizon quantum mechanics in ATLAS
S. Safarabadi	2017-19	M.Sc.	Discovery potential for quantum black holes in the di-top quark final state at the Large Hadron Collider
P. Vakili-pour	2017-19	M.Sc.	Low-scale string resonances at the Large Hadron Collider
A. Butt	2010-16	Ph.D.	Search for microscopic black holes in multi-jet final states using multiple single-jet triggers with the ATLAS detector with 8 TeV proton-proton collisions at the Large Hadron Collider
A. Saddique	2009-14	Ph.D.	Search for microscopic black holes in multijet final states with the ATLAS detector using 8 TeV proton-proton collisions at the Large Hadron Collider
K. Emelideme	2011-13	M.Sc.	Study of Microscopic Black Holes at the LHC using Noncommutative Inspired Geometry
A. Hossain	2005-09	Ph.D.	In Situ Calibration of the ATLAS Calorimeter using Semileptonic Top Quark Decays (now PDF at University of Victoria)
S.-H. Han	2005-08	M.Sc.	Study of Backgrounds to Black Hole Events in the ATLAS Detector
D. Wakeford	2003-05	M.Sc.	Observations of BL Lacertae using the Solar Tower Atmospheric Cherenkov Effect Experiment (now at Bubble Technology Industries)
K. Leung	2002-05	M.Sc.	Effects of Ionizing Radiation on I_{DDQ} Testing (now Ph.D. student at UBC)
L. Chen	2000-04	Ph.D.	Radiation Tolerant Design of 0.18-micron CMOS Technology (now Assistant Professor at University of Saskatchewan)
N. Buchanan	1999-03	Ph.D.	Radiation Qualification of the ATLAS SCAC (now Research Scientist at Colorado State University)
	1996-98	M.Sc.	Readout System for a LAr Calorimeter at ATLAS
C. Cojocar	2001-02	Ph.D.	Radiation Tests of Electronics using an X-Ray Accelerator (transferred to Carleton University)
D. MacQueen	1997-00	M.Sc.	Total Ionizing Dose Effects on Xilinx FPGAs (became Ph.D. student at University of Toronto)
D. Macdonald	1997-99	M.Sc.	In Situ Calibration of a Hadronic Calorimeter using Top Quark Decays (took medical leave and left graduate program)

Graduate Student Supervision continued

P. Kayal	1996-98	Ph.D.	Search for Vector Leptoquarks with OPAL (now Director of Refractive Research Inc, BC)
	1994-96	M.Sc.	Tests of an SCA for the ATLAS Calorimeter
T. Nickle	1995-97	M.Sc.	Testbeam Studies of a Pipeline Readout System (transferred to Faculty of Education)
K. Klapstein	1994-95	Ph.D.	Search for Leptoquarks with the OPAL Detector (transferred to University of California)

NSERC Awarded Undergraduate Students

2018	B. Undseth	Horizon quantum wave function at the LHC
2017	D. Wandler	Quantum black hole initial-state radiation
2013	Y.T. Bai	Study of noncommutative black holes
2011	B. Jong Jung	Study of black hole results at the LHC
2010	J. Hutchinson	Study of black hole balding and radiation at the LHC
2008	K. Martell	Study of Highly-Excited String States at the LHC
2008	S. Marcu	Rare Particle Production from Black Holes at the LHC
2007	K. Martell	Microcanonical Treatment of Black Hole Decay at the LHC
2006	H. Clark	Higher-Dimensional Black Hole Event Generation
2004	T. Martin	Testing of the SCA Controller Production
2003	D. Gish	Testing of the SCA Controller Preproduction
2002	D. Gish	Monte Carlo Studies of High-Energy Gamma Rays
2001	K. Stevens	Study of Air Showers using a Simulation Program
1995	D. MacQueen	Graphical User Interface and Simulation Programming
1994	C. Tran	Study of the Top-Quark Mass Resolution with ATLAS
1994	A. Kwan	Study of the Decay $H \rightarrow \gamma\gamma$ with the ATLAS Detector
1993	A. Kwan	Monte Carlo Studies of the ATLAS EM Calorimeter

Undergraduate Students

2020	L. Cardenas	String resonance signal morphing studies
2019	J. Simpson	Quantum black hole signal morphing studies
2017	V. Mackay	Low-scale gravity in four dimensions
2015	J. Edwards	String balls in a split fermion model
2012	S. Sevova	Quantum black hole decays to jet + photon
2012	R. Pavelich	Quantum black hole decays to dileptons
2012	K. Saraswat	Uncertainties on Quantum Black Holes in Dijets from ATLAS
2009	K. Martell	Study of Quantum Gravity at the LHC
2005	H. Clark	Noise Studies of Enclosed-Gate Transistors
2003	D. Wakeford	Search for High-Energy Gamma Rays from Markarian 421
2002	W. Syed	Testing of the SCA Controller Prototype
2000	L. Chen	Design of an IC in a radiation tolerant technology
1998	A. Murphy	Particle Fluxes in the Region of the Front-End Electronics
1997	K. Reil	A VHDL Model of a Readout Controller
1997	R. Zemp	Study of Top-Quark Mass Resolution
1996	N. Buchanan	Data Collection for a Calorimeter Readout System
1996	B. Hunter	Application of Adaptive Logic Networks to Triggering
1994	P. Kayal	Tests of a SCA for the ATLAS Calorimeter

Graduate Student Examinations and Committees

P. Mekarski	2013-	Ph.D.	Department of Physics, University of Alberta
S. Jabbar	2012-17	Ph.D.	Department of Physics, University of Alberta
M. Malehmir	2012-	Ph.D.	Department of Physics, University of Alberta
K. Chan	2007-	Ph.D.	Department of Physics, University of Alberta
W.Y. Ting	2000-	Ph.D.	Department of Physics, University of Alberta
C. Howard	2005-10	Ph.D.	Department of Physics, University of Alberta
Y. Yao	2001-08	Ph.D.	Department of Physics, University of Alberta
E. Jankowski	2000-05	Ph.D.	Department of Physics, University of Alberta
A. Gaponenko	2000-05	Ph.D.	Department of Physics, University of Alberta
M. Mah	1999-05	Ph.D.	Department of Physics, University of Alberta
M. Belov	2000-04	Ph.D.	Department of Physics, University of Alberta
R. Hossain	1997-01	Ph.D.	Department of Physics, University of Alberta
E. Elhassan	1995-00	Ph.D.	Department of Physics, University of Alberta
F. Al-Shamali	1994-98	Ph.D.	Department of Physics, University of Alberta
R. Soluk	1988-98	Ph.D.	Department of Physics, University of Alberta
M. Qurann	1993-96	Ph.D.	Department of Physics, University of Alberta
A. Macpherson	1992-96	Ph.D.	Department of Physics, University of Alberta
C. Bina	2015-18	M.Sc.	Department of Physics, University of Alberta
R. Chouinard	2011-13	M.Sc.	Department of Physics, University of Alberta
E. Bianco	2005-08	M.Sc.	Department of Physics, University of Alberta
K. Chan	2005-07	M.Sc.	Department of Physics, University of Alberta
A. Saha	2003-05	M.Sc.	Department of Physics, University of Alberta
G. Solano	2003-04	M.Sc.	Department of Physics, University of Alberta
A. Johnston	2001-02	M.Sc.	Department of Physics, University of Alberta
R. MacDonald	1999-02	M.Sc.	Department of Physics, University of Alberta
F. Sobratee	1997-98	M.Sc.	Department of Physics, University of Alberta
R. Davis	1993-97	M.Sc.	Department of Physics, University of Alberta
D. O'Neil	1994-96	M.Sc.	Department of Physics, University of Alberta
R. Paiam	1994-97	Ph.D.	Dept. of Electrical Engineering, Univ. Alberta
M.W.M. Yiu	2003-06	M.Sc.	Dept. of Electrical Engineering, Univ. Alberta
L. Fu	2002-04	M.Sc.	Dept. of Electrical Engineering, Univ. Alberta
C. Giasson	2001-04	M.Sc.	Dept. of Electrical Engineering, Univ. Alberta
SA. Ung	2001-03	M.Sc.	Dept. of Electrical Engineering, Univ. Alberta
YN. Xiang	1999-02	M.Sc.	Dept. of Electrical Engineering, Univ. Alberta
H. Wang	1999-00	M.Sc.	Dept. of Electrical Engineering, Univ. Alberta
Y. Chan	1995-97	M.Sc.	Dept. of Electrical Engineering, Univ. Alberta
T. Seniuk	1992-94	M.Sc.	Dept. of Electrical Engineering, Univ. Alberta
C. Hu	2003-05	M.Sc.	Dept. of Computer Science, Univ. Alberta
D. Asgeirsson	2011	Ph.D.	Department of Physics, UBC
R. Teuscher	1990-96	Ph.D.	Department of Physics, University of Toronto
C. Zhou	2010	Ph.D.	Department of Physics, McGill University

Graduate Student Examinations and Committees continued

LW. Hung	1991-97	Ph.D.	Department of Physics, McGill University
K. Kordas	1991-93	M.Sc.	Department of Physics, McGill University

Teaching of Courses

Since my academic position is half funded by the TRIUMF National Laboratory, I teach a half load (three half-courses every two years). I was exempt from teaching my first term (Winter 1993). I was on sabbatical leave 1999-2000 and 2006-2007. The following is a list of courses I have taught at the University of Alberta.

Graduate-Level Courses

PHYS 673: *Real-Time Computing and Experiment Data Acquisition* (half course, 1996),
<http://cpp.phys.ualberta.ca/~gingrich/phys673/phys673.html>

Topics included computer architecture, operating systems and real-time kernels, concurrent programming and parallel languages, microprocessors, digital signal processors and gate arrays, buses, crates and computer interfaces, data transport, trigger and DAQ architectures, pipelining and parallelism, run control, experiment monitoring.

PHYS 590: *Particle Physics II: Gauge Theories* (half course, 1997,2009),
<http://cpp.phys.ualberta.ca/~gingrich/phys590/phys590.html>

Topics included Lagrangian formalism, conservation laws, gauge invariance, non-abelian gauge theories, hidden symmetries, electroweak interactions of leptons and quarks.

PHYS 574: *Experimental Methods in Physics* (half course, 2012),
<http://cpp.phys.ualberta.ca/~gingrich/phys574/phys574.html>

Methods of particle detection. This third of the course dealt with the topics of passage of particles through matter and sampling calorimeters. I taught 1/3 of course.

PHYS 530: *Statistical Mechanics* (half course, 2011-13),
<http://cpp.phys.ualberta.ca/~gingrich/phys530/phys530.html>

Topics included fundamentals of classical and quantum statistical mechanics, with selected applications.

PHYS 524: *Classical Electrodynamics* (half course, 2018-19),

Topics included wave guides, radiating systems; special relativity, dynamics of relativistic particles and electromagnetic fields; radiation by moving charges; multiple fields. Additional special topics will be discussed.

PHYS 512: *Advance Quantum Mechanics II* (half course, 2001,2003-05),
<http://cpp.phys.ualberta.ca/~gingrich/phys512/phys512.html>

Topics included Klein-Gordon equation, Dirac equation, propagator theory, and quantum electrodynamics.

Published textbook “Practical Quantum Electrodynamics”, Taylor & Francis CRC Press, 2006, ISBN 1584885424, 360 pages.

Undergraduate-Level Courses

ENPH 131: Engineering Mechanics (half course).

Topics included kinematics and dynamics of particles; gravitation; work and energy; linear momentum; angular momentum; systems of particles; introduction to dynamics of rigid bodies This course is taken only by Engineering students.

2018: 140 students.

2017: 100 students (convener 6 sections, 629 students).

2016: 138 students.

PHYS 499: Special Projects (half course),

<http://cpp.phys.ualberta.ca/~gingrich/phys499/phys499.html>

2018: Large hidden sector and Kaluza-Klein model's missing transverse momentum and proton-ptoton cross-section analysis for the graviton search at LHC (Jaykumar Petel).

2017: Parton distribution study at high x (Aidan Macpherson).

2016: Limits on Quantum Black Holes in ATLAS dijet events (Michael Eigie).

2015: Investigation of diboson and mono-X quantum black hole decay states at the Large Hadron Collider(Dylan Podkowka).

2015: Limits on Quantum Black Hole Production at the Large Hadron Collider (Zihui Wang).

2013: Commissioning and Characterisation of the University of Alberta X-ray accelerator facility (Bryson Ewanchuk).

2009: Democratic Brane Worlds (1 student).

2004: Detection of X-rays using Photodiodes (1 student).

1998: Testing Parallel Algorithms on Digital Signal Processors (1 student).

1997: Testing Parallel Algorithms on Digital Signal Processors (1 student).

1996: Hoffman Minimum Redundancy Coding Algorithms in OCCAM (1 student).

1995: Study of the Decay $H \rightarrow \gamma\gamma$ with the ATLAS Detector (1 student).

PHYS 493: Instrumentation B (half course)

1997: Computer-aided Design of a Multiple FIFO System (1 student).

1995: Computer-aided Design of a Digital Multiplexer (1 student).

Undergraduate-Level Courses Continued

PHYS 485: Introductory Particle Physics (half course),

<http://cpp.phys.ualberta.ca/~gingrich/phys485/phys485.html>

Topics included particles and forces, relativistic kinematics, symmetries and conservation laws, Dirac equation and electrodynamics of leptons and quarks, quantum chromodynamics and the strong interaction, weak interactions and electroweak unification.

2010: 10 students.

2009: 11 students.

2008: 5 students.

PHYS 397: Projects in Experimental Physics (half laboratory course),

<http://cpp.phys.ualberta.ca/~gingrich/phys397/phys397.html>

This is a senior laboratory course offering experiments in optics, electromagnetism, modern physics and nuclear physics. It is a free-form laboratory in which students are required to innovate their own experiments based on existing equipment already in place.

2001: 28 students.

PHYS 395: Electronics (half course with laboratory),

<http://cpp.phys.ualberta.ca/~gingrich/phys395/phys395.html>

Topics included review of DC and AC circuits, filters, diodes and transistor circuits, operational amplifiers, digital circuits, data acquisition, and computers.

Wrote over 160 pages of lecture notes with over 100 diagrams, including examples and problems (desktop published). See section *Other Teaching Related Activities*.

1998: 9 students.

1997: 11 students.

1996: 20 students.

1995: 30 students.

1994: 22 students.

PHYS 372 Quantum Mechanics A (half course).

<http://cpp.phys.ualberta.ca/~gingrich/phys372/phys372.html>

Topics included origins of quantum mechanics, wave functions, Schrodinger equation and its application to one dimensional systems, postulates and physical interpretation of quantum mechanics, orbital angular momentum, central potentials and three-dimensional systems.

2006: 49 students.

Undergraduate-Level Courses Continued

PHYS 234 Introductory Computational Physics (half course).

<http://www.ualberta.ca/~gingrich/phys234/phys234.html>

Algorithms for scientific data analysis, techniques for solving physics problems with selected topics from mechanics, waves, geometrical optics, electricity and magnetism, statistical physics, decay processes, quantum physics.

2015: 66 students.

PHYS 200 Relativistic Aspects of Modern Physics (half course).

<http://cpp.phys.ualberta.ca/~gingrich/phys200/phys200.html>

Topics included limitations of classical physics, Einstein's special theory, length contraction, time dilation, twin paradox, equivalence of mass and energy, relativistic mass and momentum, the general theory of relativity including deflection of light, black holes, models of the universe, and curvature of space.

2005: 33 students.

PHYS 124 Particles and Waves (half course).

<http://cpp.phys.ualberta.ca/~gingrich/phys124/phys124.html>

Algebra-based course for students in life, environmental, and medical sciences. It guides the student through two distinct types of motion: motion of matter (particles) and wave motion. Vectors, forces, bodies in equilibrium, elasticity and fracture, review of kinematics and basic dynamics, conservation of momentum and energy, circular motion, vibrations, waves in matter, wave optics, sound, black body radiation, photons, de Broglie waves, models of the atom. Examples relevant in environmental, life, and medical sciences will be emphasised.

2003: 104 students.

2002: 99 students.

PHYS 105: Introduction General Physics I (mechanics) (half course).

Topics included kinematics and dynamics in two dimensions, work and energy, momentum, rotational kinematics and dynamics, and simple harmonic motion. This course was primarily taken by students wishing to enter Medical School.

1994: 100 students.

1993: 74 students.

TEACHING AT THE UNIVERSITY OF OXFORD

Graduate Student Supervision (1989-92)

Supervising graduate students at the University of Oxford was not a requirement of my Research Associate position but was fully recognised by the University. By the nature of my research – involving large collaborations – I directly guided the research of several students at any one time. It was un-typical for a Research Associate to supervise more than one student. The following two students were officially under my supervision.

J. Butterworth 1989-92 D.Phil., M.Sc. Now Professor of Physics at
University College London.

A. Byrne 1991-94 D.Phil., M.Sc. Now employed by Oxford Magnets, UK.

As my student, J. Butterworth published a two-author paper in Nuclear Physics B. and won second prize in a National Science Writing contest.

Undergraduate Teaching (1988-92)

My position as College Lecturer in Physics at Hertford College (University of Oxford) was in addition to my position as a Postdoctoral Research Associate at the University of Oxford.

Undergraduate teaching at the University of Oxford runs at three levels and the individual Colleges are responsible for the teaching of their own students. Hertford College typically admits ten physics students each year. I was responsible for teaching certain subject areas at all three levels each year. Each term (three per year) I was responsible for a different subject area and taught about ten students. I ran the teaching as problem solving sessions in which problems were assigned and then discussed the following week. I typically tutored students in pairs matched in ability and hence spent approximately five hours per week with students.

In each term I supplied completely written out problem sets. Problems were derived from previous exams except for the second year Electromagnetism in which I derived problems from the text book by Lorrain and Corson. Each term I prepared tests and was responsible for marking these and the problem sets. I also supplied a reading lists in Electromagnetism, Nuclear and Particle Physics, and course outlines in each course I taught.

Undergraduate students at the University of Oxford are evaluated totally on their results of University-wide standard examinations. In addition, each term I wrote an evaluation of each student for the College. Of the 47 students I taught over a four years period, all graduated with a degree in physics. Two students were asked to repeat the final year.

The following is a list of courses I taught at Hertford College Oxford.

Electromagnetism: 3rd year

Topics included electrostatic and magnetic fields; Maxwell equation; plane waves in infinite media; reflection and refraction; transmission lines and radiating systems; scattering, dispersion and absorption.

Nuclear and Particle Physics: 3rd year

Topics included nuclear physics definitions and nuclear models; nuclear reactions and decays; classification of interactions and particles; conservation laws and quark model.

Electromagnetism: 2nd year

Topics included plane waves in infinite media; reflection and refraction; radiating systems, transmission lines, scattering, dispersion and absorption.

Nuclear and Particle Physics: 2nd year

Topics included definitions and nuclear models; nuclear decays: gamma, beta, alpha; nuclear reactions: cross-section, scattering, fusion, fission; particle physics: classification of interactions and particles, and conservation laws.

Optics: 2nd year

Topics included Huygen and Fermat principles; beats, group velocity, and Fourier transforms; polarization; interference, Michelson and Fabry-Perot spectrometers; diffraction.

Mathematics: 1st year

Topics included linear second order differential equations; Laplace, Schrödinger, time-dependent diffusion, and wave equations.

TEACHING AT THE UNIVERSITIES OF TORONTO AND WATERLOO

Teaching was optional during my undergraduate and graduate degrees since I had adequate scholarships to support myself. There was a two year gap in my teaching at the University of Toronto during which I researched abroad.

My duties at the Universities of Waterloo and Toronto involved marking approximately 30 first year physics assignments per week. In addition, one hour per week was spent in tutorials at the University of Toronto. The courses I tutored were primarily taken by students planning on entering Medical School. During my later years at the Universities of Waterloo and Toronto I spent several hours per week in the Physics Drop-in Help Centres. These Help Centres provided a forum for any undergraduate student to drop by and ask questions. First year non-physics majors seeking help on problem assignments made the most use of the service. The following is a list of my teaching experience at the Universities of Toronto and Waterloo.

University of Toronto	1987	drop-in tutoring centre
	1982-84	1 st year physics
University of Waterloo	1980-82	drop-in tutoring centre
	1978-80	1 st year physics

OTHER TEACHING RELATED ACTIVITIES

- Published textbook “Practical Quantum Electrodynamics”, Taylor & Francis CRC Press, 2006, ISBN 1584885424, 360 pages.
- Published “Dictionary of Pure and Applied Physics”, Edited by Dipak Basu, CRC Press, 2001, ISBN 0-8493-2890-X.
- Desktop published lecture notes for PHYS395 - Electronics,
<http://cpp.phys.ualberta.ca/~gingrich/phys395/phys395.html>. A few places at which the notes are being used are
 - University of Alberta - Physics,
 - University of Toronto - Physics,
 - Washington College - Physics,
 - University of Arizona - Electrical and Computer Engineering,
 - James Madison University - Harrisonburg, Virginia,
 - Rochester Institute of Technology - Dept. of Information Technology,
 - Rensselaer Polytechnic Institute - New York,
 - Mu’tah University - Jordan.

Unsolicited comments on the notes that I have received from students and teachers can be view at <http://cpp.phys.ualberta.ca/~gingrich/phys395/comments.html>

- Desktop publishable: The UNIX Shell Guide, written with N. Buchanan, not finished,
<http://cpp.phys.ualberta.ca/~gingrich/research/shells/shells.html>.
- Teaching seminars attended:
 - Orientation for New Professors (two days).
 - Graduate Student Supervision
- Edmonton Science Fair judge.
- Volunteer for the Science and Technology Hotline (Edmonton).
- Canadian Undergraduate Physics Conference judge.

Unsolicited Comments on PHYS395 Lecture Notes

Return-Path: <sui@unbc.ca>

Dear Prof. Gingrich:

Here is Jueyi emailing from the University of Northern British Columbia.

I am teaching "Fundamentals of Environmental Engineering" this semester. I have to give some basic information regarding "electronics for instrumentation" (only 1 hour) which is not my field.

I found your lecture notes (PHYS395) are excellent material for our students. May I use some part of your notes? I will cite the source (such as your name, webpage address).

Thanks so much in advance.

Jueyi

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From: Duamel Vellon <duavel@yahoo.com>

Subject: Physics - Engineering

Hi. I just wanted to say thank you for the site that you have on the web, the Physics notes for electronics. I have looked at every single page and am in awe. I have a Electrical Engineering degree and I studied everything on there. I just wanted to commend you on your notes. Terrific!

Duamel Vellon
Orlando, FL

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Subject: filter notes (PHYS395)

From: "Kuba Ober" <kuba@mareimbrium.org>

Dear Sir,

Your class notes about filter design are *the* most easy to understand notes on that subject that I've ever seen. It may indicate my overall ignorance (I'm the kind of guy who designs filters in spice and tweaks values until the transfer function looks as required), or simply that you have that 'something' that allows some people to be excellent teachers.

Keep up the good work!

Cheers, Kuba Ober

PS. I'm a graduate mechanical engineering student. I did my undergrad in physics. My long-time passion has been instrumentation electronics and software, especially for biomeasurements.

PS2. A note about your PDF file: your TeX system is using bitmapped fonts in the generated .ps (and subsequently, .pdf files). If you're on a unix box, create a file named '.dvipsrc' in your home directory, and put following two lines into it:

```
p+ psfonts.cms
p+ psfonts.amz
```

That should make the .pdf files look better in the Acrobat.

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From: Michael Lewis [cmosmike@hotmail.com]
Sent: Thursday, September 06, 2001 9:53 PM
To: gingrich@ualberta.ca
Subject: Phys 395 notes

I run a web site that offers information on CMOS layout design. For your refernece, the URL is <http://sites.netscape.net/cmoslayoutdesign>

Anyhow, I discovered your Phys 395 lecture notes while doing a Yahoo search. Your site is wonderful, with an amazing amount of information about electronics. I would like to offer a link to your notes from my web site, would this be ok?

Thank you
Michael Lewis

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From: M. Hannout [mhanout@cisunix.unh.edu]
Sent: Saturday, August 04, 2001 3:52 AM
To: gingrich@ualberta.ca
Subject: Electronics Web notes.

Dear Prof. Gingrich

My name is Moataz Hannout. I am a teaching assistant at the University of New Hampshire at Durham. I am going to teach the electronics lab to accompany a senior class on physical electronics in the fall of 2001. The course will be taught by Prof. John Calarco.

We were wondering if you can give us your recommendation about book that will contain most of the materials described in your web page " Not including materials after Data Acquisition and Process Controls ". Of course the art of Electronics is not an option for students who are new to the field.

We also wonder whether we can direct students to your web page for more information ?. Do you publish these papers as a book ?.

Finally, I'd like to congratulate you for excellent course structure and impressive wealth of knowledge to the new comer and professionals as well.

Best regards and wishes.

M. Hannout.

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From gopi@Euler.Math.MsState.Edu Wed Mar 4 17:10:19 1998
Date: Fri, 20 Feb 1998 23:59:08 CST6CDT
From: Gopinath Shanmugam <gopi@Euler.Math.MsState.Edu>
Reply-To: gs2@ra.msstate.edu
To: gingrich@phys.ualberta.ca
Subject: Hello.

Dear sir, I am a student at Mississippi State University. I stumbled onto your page when I was doing a search on 'Slew Rate.' I was so impressed by what I saw that I had to express my appreciation for innovators like you. You must have put in a lot of work to get all those notes published. I really think it was well worth the effort. I'm sure your students feel the same way too. A job well done and good luck on future endeavours.

Gopi...

From lorenz@rz.uni-duesseldorf.de Wed Mar 4 17:10:33 1998
Date: Fri, 7 Nov 1997 11:09:12 +0100
From: lorenz@rz.uni-duesseldorf.de
To: gingrich@phys.ualberta.ca
Subject: Thanks for A/D-D/A-articles

Hello!

My Name is Klaus - Hendrik Lorenz, and I'm a Student of Physics and Musicology. In the last days of September I managed the second of my last 4 Tests in studies called "Diploma tests" in the subject of : "Analog - to - digital conversion" and "Digital - to - analog conversion". In order to exercise and to understand the stuff, I referred in my learning to Your articles in the web - and: I managed the test with mark 1.7 (in a scale from 1 to 5, 1 is best, 5 is not managed). So therefore many friendly thanks for Your articles: they helped me a lot in understanding the matter! It is quite amazing both to find complete lectures about electronics etc. and about more narrow-looking artikles about some special terms and facts in the web. So - have a nice time and many friendly greetings

... from good old Germany

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From petersdw@jmu.edu Wed Mar 4 17:11:05 1998
Date: Tue, 14 Oct 1997 11:28:13 -0400
From: "Dorn W. Petersoon" <petersdw@jmu.edu>
To: gingrich@phys.ualberta.ca
Subject: Electronics Class notes

Dear Prof. Gingrich

I'll be teaching an analog electronics course to physics majors in the spring. It has been 8 years since I taught a similar course. In scanning the web I came across your course notes. I would like to provide a local copy for my students and would like your permission to copy them over to my site (maintaining of course the identification of you as the author.)

Do you use a text or just your notes. I'm not terribly happy with the various texts that have been suggested by my colleagues. In particular, while "The Art of Electronics" is a wonderful book, I can't imagine using it as a text. Please disagree with that if you do, in fact, use AoE.

Sincerely

Dorn Peterson

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From ell@it.rit.edu Wed Mar 4 17:09:44 1998
Date: Mon, 02 Mar 1998 13:21:36 -0500
From: Elizabeth Lane Lawley <ell@it.rit.edu>
To: gingrich@phys.ualberta.ca
Subject: Your PHYS 395 Lecture Notes

Professor Gingrich-

I stumbled upon your lecture notes while doing course prep for a basic computer concepts and hardware class that I'm teaching for the first time this quarter. The first two weeks of the course deal with digital logic, numbering methods, boolean algebra, etc, and your lecture notes are exactly the kind of thing I was looking for.

Would it be alright if I pointed my students (it's a distance learning class) towards your site for that material? I realize that since it's on the web I could theoretically do that without asking, but that seems rude. :-)

best,
Liz

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From connor@hibp6.ecse.rpi.edu Wed Mar 4 19:07:21 1998
Date: Fri, 09 Jan 1998 09:56:13 -0500
From: Ken Connor <connor@hibp6.ecse.rpi.edu>
To: gingrich@phys.ualberta.ca
Cc: connor@hibp6.ecse.rpi.edu
Subject: a favor

Douglas

I have been trying to find an appropriate text for my course Electronics and Instrumentation and came across your online classnotes. They would be almost perfect for the environment in which we deliver this course. I would therefore like to have my students use them, if possible.

Since you have made them freely available on the web, you may be wondering why I would even ask. I have several reasons.

1 - My mother brought me up right.

2 - I am involved in several activities in which we are developing educational materials to be delivered via the web. Two such programs here at Rensselaer that you might find informative are

Project Links, found at <http://links.math.rpi.edu/index.html>

Academy of Electronic Media, found at <http://www.academy.rpi.edu/index.html>

The former is an NSF supported project is a cooperative effort between mathematicians, engineers and scientists to develop educational materials that link mathematical topics with applications in engineering and science. The primary product of this effort is a set of interactive, web-based learning modules.

The latter is dedicated to the development and use of engaging interactive electronic media which simultaneously stimulate multiple senses will revolutionize the way in which knowledge is garnered and technology is utilized at all levels - from young child to life-long learner.

One of the key issues that comes up in this kind of activity is compensation for developers. There is an EDUCOM project called Instructional Management Systems at <http://www.imsproject.org/> that you should look at.

In any case, I need to know if my students can use your notes, since my class starts next week. We can discuss this further then. I am open to any kind of workingrelationship you might be interested in.

My class webpage is at:

<http://hibp7.ecse.rpi.edu/~connor/education/ElecInst.html>

The first thing I will have to do next week, is to send you some info on what we mean by studio classrooms. This is an exciting new way to deliver technical education that combines lectures, recitations, problem sessions, and labs all in the same place.

Ken Connor

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From: "Adrian San Juan" <aids@hotmail.com>
To: <gingrich@phys.ualberta.ca>
Subject: Thank You
Date: Thu, 16 Apr 1998 19:57:28 +0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook Express 4.72.2106.4
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.2106.4
Status: R0
X-Status: A
Sir Douglas Gingrich

Good Evening Sir or should i say Good morning... uhmmmm.
whatever.... i would just like to thank you for providing an online
lecture notes for Physics. its really helping me a lot most especially
with my electronics subject. By the way, im an ECE student from Mapua
Institute of Techonology here in Manila, Philippines. In behalf of my
classmates using your online lecture notes as our reference, we would
like to show our gratitude by including your name as well as your
website's address in every report reference we have made. We hope
that wouldnt be a big mess to you. More power to your lecture notes
posted in the internet as well as your career as a professor. We hope
that you wont let the site go down for it really helped us. We are
still using it as our reference coz it compromises all our electronics
subjects up to our fifth year.

Once again, thank you.

Respectfully yours,

Adrian San Juan

=====
Date: Wed, 29 Apr 98 11:30:05 -0600
Message-Id: <9804291730.AA25408@jever.phys.ualberta.ca>

To: gingrich@phys.ualberta.ca
From: engle@ece.arizona.edu
Subject: jever web server comment
Status: R0
X-Status:

Dr. Gingrich - I am a student at the University of Arizona in Electrical and Computer Engineering. I find your Phys 395 notes to be an extremely useful supplementary resource in my microelectronics courses. We appreciate your effort down here in Arizona. Thanks, Jim Engle

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Date: Fri, 19 Jun 1998 17:58:40 -0300
From: Tom MacIntyre <tmacinty@cbnet.ns.ca>
Reply-To: tmacinty@cbnet.ns.ca
X-Mailer: Mozilla 4.05 [en] (Win95; I)
MIME-Version: 1.0
To: gingrich@relay.Phys.UAlberta.CA
Subject: Electronics course
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Status: R0
X-Status:

Excellent!! I completed a 2-year diploma in Electronics Engineering Technology here in Cape Breton, Nova Scotia., 16 years ago, and this is an excellent refresher/updater (not to mention that I love reading technical literature!!). Thanks for a job well done.

Tom MacIntyre

=====

Date: Sat, 25 Jul 1998 12:31:35 +0100
To: gingrich@Phys.UAlberta.CA
From: Larry and Andrea Gagnon <gagnon@gagnon.u-net.com>
Subject: your electronics tutorial
Status: R0
X-Status: A

Hello: I have just been browsing your electronics tutorial on the internet. It is a very thorough piece of work and one of the better ones around. I am doing some self study in electronics and would love to be able to get through your entire series of notes. However, because they are so involved (with many layers of links) it gets quite expensive for me because here in

the UK local phone calls are charged quite heavily by the minute and long term study over the Web gets VERY expensive.

I don't suppose your notes are available as a complete download from an FTP site or something to that effect??

Your response would be greatly appreciated.

Thanks....Larry Gagnon, Wales, U.K.

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Date: 14 Aug 98 12:25:49 EDT
From: Satinder.Sidhu@washcoll.edu (Satinder Sidhu)
Subject: Electronics course
To: gingrich@Phys.UAlberta.CA
Status: R0
X-Status: A

Dear Colleague,

Greetings from South of the Border and two time zones to the east!

A recent WWW search on some electronics textbook author's name led me to your PHY395 web pages.

My compliments to you on a _very_ well-designed course. Its structure and organisation is the best I have seen for a course at this level. My opinion is possibly coloured by the fact I follow essentially the same sequence and order of topics in a one-semester course here.

I have been using Diefenderfer & Holton (Principles of Electronics Instrumentation) for the past couple of years before which I had used W. L. Faissler's "An Introduction to Modern Electronics" for three years or so. I am again considering changing the book for the semester beginning at the end of this month, being dissatisfied with many things about it, including the hefty price (about US\$85), a fault that it shares with nearly every book on the market.

I noticed that you do not require any textbook but have "lecture notes available for purchase." Would you consider making them available for purchase by students at another institution? How large is the set and what price does it sell at? Are the notes essentially the same as appearing on your web site?

An early reply will be greatly appreciated as would be any other

suggestions. I have strung our bookstore along so far but they are breathing down my neck now!

Hoping to hear soon from you.

Thanks.

SSS

Dr. Satinder S. Sidhu
Associate Professor and Chairman
Department of Physics
Washington College
300 Washington Avenue
Chestertown, MD 21620-1197

Telephone: 410-778-7255 (Office)

FAX: 410-778-7275

Necessary and sufficient eMail address:

Satinder.Sidhu@WashColl.EDU

=====

To: gingrich@Phys.UAlberta.CA

Subject: Thank you

X-Priority: 3 (Normal)

Content-Type: text/plain; charset=iso-8859-1

Content-Transfer-Encoding: 8bit

Status: R0

X-Status:

I am a student of Chemistry at the Universidad de Los Andes, Venezuela.
I am writing to you because I want to thank you: your web sites have helped me a lot with my physics laboratory. I have found in them information that is not in my books, and it is given exactly in the way I need it. So, when I need to understand something about my laboratory course all I have to do is refer to your notes.
Thank you again.

Maricarmen Grisola.

=====

From Patissaved@aol.com Thu Jul 29 22:20 MDT 1999

thank you.

i have been longing to know how mirco computers worked.
i have worked with windows, dos, and currently using unix and being taught
about sql
i have been enlightened by your webpage
<http://www.phys.ualberta.ca/~gingrich/phys395/notes/phys395.html>

thank you.... it is as if a light went on inside of my head.

thank you
Patricia

=====

From: Kay O'Neal [anona@accessatc.net]
Sent: February 24, 2000 11:31 PM
To: gingrich@ualberta.ca
Subject: lecture notes

Hello,
Your lecture notes are very impressive. I am sorry that I am unable
to attend your classes (I live in Georgia), but your notes helped me
prepare for a difficult exam that BellSouth requires some prospective
job applicants to pass. I will be tested next week on Basic Digital
Electronics and your notes have improved my chances of success. Thank
you.

Sincerely,
Kay O'Neal

=====

From: Larry Ciak [larryc@electronics-warfare.com]
Sent: Sunday, June 04, 2000 4:42 PM
To: gingrich@ualberta.ca
Subject: Thank You

Dr. Gingrich,

While searching the web for information on passive filters, I came upon
your site for Physics 395.

It contains a wealth of information which I downloaded.

I am a senior at Weber State University, in Salt Lake City, Utah. (also 54
years old :))

I wish to thank you for the information and details contained in the page.

My main area of interest is in the suppression of harmonics and magnetics.
My mentor is Dr. Edward G. Price whose credits include the hand held
calculator and the wireless microphone.

I consider myself very fortunate for his guidance and persons such as
yourself who present their information to the public.

Thank you again

Larry W. Ciak

=====

From: Tyson Sommer [t-y-s-t-y-x@flash.net]
Sent: Monday, August 27, 1956 10:58 AM
To: gingrich@ualberta.ca
Subject: PHYS395 notes

In regards to the thoroughness and obvious care and time you spent
putting all that information together and making it readily available
essentially free-of-charge not just for your students, but also for Joe
Randomguys like myself:

you rule. may karmic confetti rain down upon you and stuff for a while.

seriously, thank you!
tyson

=====

To: gingrich@ualberta.ca
Subject: umm your PDF seems to be broken.
Date: Fri, 03 Nov 2000 11:37:55 -0500
From: Matt Goward <mgoward@eviloverlord.org>

Your PHYS 395 class notes pdf seem to be broken. Is this intentional? I
truly hope not as it is one of the most useful references for I have found for
teaching my self electronics, and I have lost my local copy.

Matt Goward

=====

From: Brian Hoskins <BrianJHoskins@usermail.com>
Subject: Your Physics Website All headers

Hello,

First, to introduce myself, my name's Brian Hoskins and I'm a member of the Electronics101 group on the internet. One of our members has been asking alot of basic Electronics questions recently and while doing some research I happened upon your site. Although a Physics site, it does teach Electronics from the Basics up to quite a complex level, and I have posted him the link so that he may visit your site and hopefully learn from it.

I just wanted to confirm that you don't mind if I give others the link to your site, as I was thinking of posting it to my old A-Level Physics teacher. I'm sure his students would find it very useful as an easily accessable resource of Physics information, so as long as you have no objections I'll post him the link to your site later.

I'm sure it's obvious that having visited your site and browsed through I am very impressed!

Kind regards

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Subject: Online Electronics Notes

Doug,
I have been very impressed with your online notes. I am considering using them as a supplementary text in my introductory electronics course. If I have the students purchase this as a course pack in the bookstore, would you desire a royalty payment, and if so, how much?

Thanks for all your work

Tom

=====

From: Joe Reeder [jreeder1@airmail.net]
Subject: Your Operational Amplifiers Page

Dear Professor Gingrich,

This is just a note to let you know that I have included a reference to your Operational Amplifiers page at my Embedded Systems Tutorial site:
<http://www.learn-c.com>

It is a free tutorial that teaches embedded systems programming by taking a person from the basics to actually producing output to and getting input from the real world using the C programming language.

Joe Reeder