

CUMULATIVE BIO-BIBLIOGRAPHY

University of California, Santa Cruz, CA

September 2002

Clemens A. Heusch

Professor of Physics

Porter College

Signature indicates the following information has been reviewed for accuracy and bio-bibliography information ___ may ___ may not be released to the public.

Signature of Faculty Member

Date

EMPLOYMENT

- 1969-present University of California, Santa Cruz, Professor of Physics
Principal Investigator, Experimental Particle Physics
- 1963-69 California Institute of Technology, Pasadena, Research Fellow,
Senior Research Fellow, Associate Professor
- 2000-01 DESY, Research Associate
- 1960-1961 AEG, Division of Research, Project Leader
- 1956-59 AEG, Division of Research, Project Consultant
Technical University of Munchen, Research Assistant

EDUCATION

- 1959 Ph.D. (summa cum laude), Technical University of München, Germany
- 1956 University of Paris, Paris, France
- 1955 Dipl. Phys., Technical University of Aachen, Aachen, Germany
- 2000-01 Bowdoin College, Brunswick, Maine

PROFESSIONAL ACTIVITIES

Other Academic Appointments

- Visiting Professor, University of Pavia, Italy
Visiting Professor, University of Roma (La Sapienza)
- 1992 Visiting Professor, University of Pisa, Italy
- 1983-present Visiting Associate, European Center for Nuclear Research, Geneva, Switzerland
- 1980-present Visiting Professor, University of Aachen, Germany
- 1979-81 Santa Cruz Institute of Particle Physics, Acting Director
- 1974-75 Visiting Professor, University of München
Visiting Scientist, European Center for Nuclear Research, Geneva

- 1973-present Visiting Fellow, Max Planck Institute for Physics and Astrophysics, München
- 1970-72 Visiting Professor and Visiting Associate, California Institute of Technology
- 1963-present Lecturer and Invited Speaker at numerous summer schools, academies, and international conferences

HONORS, AWARDS, GRANTS

- 2000-01 DOE, \$1,802,000
e-e- Conference Grant, \$5,500
- 1999
2000-01 DOE, \$1,780,000
- 1999-2000 DOE, \$1,785,000
e-e- Conference Grant, \$5,000
- 1998-99 DOE, \$1,800,000
- 1997-98 DOE, \$1,781,000
- 1996-97 DOE/SCIPP\$1,321,000
- 1996-97 DOE/e-e-\$20,000
Special DOE Grant for e-e- activities
- 1995-96 DOE/SCIPP - \$1,215,000
Supplementary DOE Award for Linear Collider work in framework of SCIPP Program.
Award of Lynen Fellowship to Dr. Wilko Kroeger for work under sponsorship of C.A. Heusch
- 1995 Humboldt Prize, Follow-up Grant, \$30,000
- 1994-96 European Community Grant for support of and collaboration with Dr. Perez of the University of Honduras, on SMC physics at CERN, \$35,000
- 1994-95 DOE/SCIPP - \$1,228,600
- 1993-94 SCIPP - \$1,277,200
- 1993 Lynen Fellowship awarded to Dr. Torsten Layda for work under the supervision of C.A. Heusch.
- 1992-93 SCIPP - \$1,215,000
- 1991-92 European Community Fellowship to Dr. Gustavo Perez for collaboration under the supervision of C.A. Heusch, \$12,000
- 1991-92 SCIPP, \$2,171,000
- 1991 Humboldt Prize conferred by the President of the Humboldt Foundation, at reception by the President of the Federal Republic of Germany.
- 1990 Humboldt Prize, \$100,000

1990 NSF Special Grant, US/Mexico \$25,000
DOE Special Grant, US/Mexico \$25,000

1990-91 DOE SCIPP Grant = \$920,000

1989-90 DOE SCIPP Grant = \$900,000

1988-89 Research Grant, UCSC-SCIPP = \$830,000

1987-88 Research Grant, UCSC-SCIPP = \$800,000

1986-87 Research Grant, UCSC-SCIPP = \$776,000

1985-86 Research Grant, UCSC-SCIPP = \$558,000

1984-85 DOE Contract = \$755,000
UCSC-SCIPP

1983-84 NSF Conference Grant = \$2,000
DOE Research Grant = \$655,000
Research Grant, UCSC-SCIPP = \$82,000

1982-83 DOE Grant = \$615,000
Research Grant, UCSC-SCIPP = \$62,000

1981-82 DOE Research Grant = \$547,000
SCIPP Research Grant = \$66,981
Conference Organization, Particles and Fields, 1981;
Division of Particles & Fields, APS = \$2,500

1980-81 DOE Research Grant = \$465,000
SCIPP ORU Research Grant = \$55,000

1979-80 DOE Research Grant = \$515,000
ORU Research Grant = \$45,000

1978-79 DOE Research Grant = \$505,000
UCSC ORU Research Grant = \$30,000

1977-78 DOE Research Grant (renewal) = \$390,000

1976-77 US Energy Research & Development Administration (renewal) \$345,000

1975 Research Grant for UCSC High Energy Physics - U.S. Atomic Energy
Commission (renewal) = \$225,000

Plus various grants from UCSC Research Committee (mostly for inter campus
travel of High Energy Physics Group, and for travel to international conferences

1974 Research Grant for UCSC High Energy Physics - U.S. Atomic Energy
Commission (renewal) = \$182,000 + \$50,000

1973 Research Grant for UCSC High Energy Physics - U.S. Atomic Energy
Commission (renewal) = \$150,000 + 20,000

1972 Research Grant for UCSC High Energy Physics - U.S. Atomic Energy
Commission (renewal) = \$110,000

- 1971 Research Grant for UCSC High Energy Physics - U.S. Atomic Energy Commission (renewal) = \$90,000
- 1970 Research Grant for UCSC High Energy Physics - U.S. Atomic Energy Commission, \$80,000

PUBLISHED WRITINGS AND CREATIVE ACTIVITIES

Measurements of Inelastic J/ψ and ψ' Photoproduction at HERA (October 2002).

Leading Proton Production in $e+p$ Collisions at HERA, ZEUS Collaboration; S. Chekanov, *et al.* DESY-01-142, 61 pp. (Sept. 2002).

Inclusive jet cross-sections in the Breit frame in neutral current deep inelastic scattering at HERA and determination of α_s . DESY-02-112. ZEUS Collaboration; S. Chekanov, *et al.*, *Phys. Lett. B* 547:164-180 (August 2002).

Measurement of high- Q^2 $e p$ neutral current cross-sections at HERA and the extraction of xF_3 . Zeus Collaboration; S. Chekanov, *et al.* DESY-02-113, *Europ. Phys. Journal* (August 2002).

A ZEUS next-to-leading-order QCD analysis of data on deep inelastic scattering DESY-02-105. Zeus Collaboration; S. Chekanov, *et al.*, *Phys. Rev. D* (August 2002).

Measurement of Branching Fractions for Exclusive B Decays to Charmonium Final States, B.Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. D* 65, 032001 (2002), hep-ex/0107025.

Study of Inclusive Production of Charmonium Mesons in B Decay, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. D* (July 2002).

Search for Decays of B^0 Mesons into Pairs of Leptons. BABAR Collaboration (B. Aubert, *et al.*) SLAC-PUB-9313, BABAR-CONF-02-028, 16 pp. (Jul. 2002).

Evidence for the Flavor Changing Neutral Current Decays $B \rightarrow K L^+ L^-$ and $B \rightarrow K^* L^+ L^-$. BABAR Collaboration (B. Aubert, *et al.*) SLAC-PUB-9323, BABAR-CONF-02-023, 33 pp. (Jul. 2002).

Measurement of the Inclusive Electron Spectrum in Charmless Semileptonic B Decays Near the Kinematic Endpoint. BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9282, BABAR-CONF-02-012, 17 pp. (Jul. 2002)

Measurement of the CKM Matrix Element $|V(UB)|$ with Charmless Exclusive Semileptonic B Meson Decays at BABAR. BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9305, BABAR-CONF-02-030, 19 pp. (Jul. 2002).

Measurement of the First Hadronic Spectral Moment from Semileptonic B Decays. BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9314, BABAR-CONF-02-029, 20 pp. (Jul. 2002).

Measurement of the $B^0 \rightarrow D^{*-} A^+(1)$ Branching Fraction with Partially Reconstructed D^* . BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9315, BABAR-CONF-02-010, 16 pp. (Jul. 2002).

Measurement of the Branching Fractions for the Exclusive Decays of B^0 and B^+ to Anti- $D^{(*)}D^{(*)}$ K . BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9322, BABAR-CONF-02-19, 19 pp. (Jul. 2002).

Measurement of Branching Ratios and CP Asymmetries in $B \rightarrow D^0(\text{CP}) K$ -Decays. BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9311, BABAR-CONF-02-018, 17 pp. (Jul. 2002).

Measurement of Branching Fractions of Color Suppressed Decays of the Anti- B^0 Meson to D^0 P10, $D^0\eta$ and $D^0\omega$, BABAR Collaboration (B. Aubert, *et al.*, contributed to 31st International Conference on HEP (ICHEP 2002), Amsterdam, The Netherlands, 24-31 July 2002. SLAC-PUB-9324, BABAR-CONF-02-17, 15 pp. (Jul. 2002).

Dalitz Plot Analysis of D^0 Hadronic Decays $D^0 \rightarrow K^0 K^- \pi^+$, $D^0 \rightarrow \text{Anti-}K^0 K^+ \pi^-$ and $D^0 \rightarrow \text{Anti-}K^0 K^+ K^-$. BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9320, BABAR-CONF-02-031, 23 pp. (Jul. 2002).

Measurement of $B^0 \rightarrow D(S)^*+D^*$ - Branching Fractions and Polarization in the Decay $B^0 \rightarrow DS^*(\text{File- with a Partial Reconstruction Technique}$. BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9321, BABAR-CONF-02-20, 22 pp. (Jul. 2002).

Determination of the Branching Fraction for Inclusive Decays $B \rightarrow X(S) \text{ Gamma}$. BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9301, BABAR-CONF-02-026, 16 pp. (Jul. 2002).

$B \rightarrow S \text{ Gamma}$ Using a Sum of Exclusive Modes. BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9308, BABAR-CONF-02-25, 21 pp. (Jul. 2002).

Search for the Exclusive Radiative Decays $B \rightarrow \text{Rho Gamma}$ and $B^0 \text{ Omega Gamma}$. BABAR Collaboration (B. Aubert, *et al.*). SLAC-PUB-9319, BABAR-CONF-02-024, 21 pp. (Jul. 2002).

Measurement of diffractive production of $D^{*\pm}$ (2010) mesons in deep inelastic scattering at HERA DESY-02-082, ZEUS Collaboration; S. Chekanov, *et al.*, *Phys. Lett. B* (June 2002).

Measurement of proton-dissociative diffractive photoproduction of vector mesons at large momentum transfer at HERA DESY-02-072, Zeus Collaboration; S. Chekanov, *et al.*, *Europ. Phys. Journal* (May 2002).

Measurement of high- Q^2 charged current cross sections in e^+p deep inelastic scattering at HERA DESY-02-064, ZEUS Collaboration; S. Chekanov, *et al.*, *Phys. Lett. B*. (May 2002).

Leading Neutron production in e^+p collisions at HERA DESY-02-039, ZEUS Collaboration; S. Chekanov, *et al.*, *Nucl. Phys. B* (April 2002).

Measurement of the Q^2 and energy dependence of diffractive interactions at HERA DESY-02-029, ZEUS Collaboration; S. Chekanov, *et al.*, *Europ. Phys. Journal C* (March 2002).

Exclusive photoproduction of J/Ψ mesons at HERA DESY-02-008. ZEUS Collaboration, S. Chekanov, *et al.*, *Europ. Phys. Journal C*: DOI 10.1007/s10052-002-0953-7 (Online Publication) (January 2002).

Measurement of the branching fraction for inclusive semileptonic B meson decays, B. Aubert, *et al.* (BABAR Collaboration), SLAC-PUB-9306, BABAR-PUB-02-011, 9 pp. (Aug. 2002).

A study of the rare decays $B^0 \rightarrow D_S^*(\pi)^+ \pi^-$ and $B^0 \rightarrow D_S^*(\pi)^+ K^-$, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* (2002).

Measurement of branching fractions and CP-violating asymmetries in $B^0 \rightarrow \pi^+ \pi^-$, $K^+ \pi^-$, $K^+ K^-$ decays, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* (2002).

Measurement of the CP-violating asymmetry amplitude $\sin 2\beta$, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* (2002).

Rare B decays to states containing a J/ψ meson, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* (2002).

A measurement of the $B^0 \rightarrow J/\psi \mu^+ \pi^-$ branching fraction, B. Aubert *et al.* (BABAR Collaboration), BABAR-CONF-02-04, 16 pp. Presented at 37th Rencontres de Moriond on QCD and Hadronic Interactions, Les Arcs, France, 16-23 March 2002.

A measurement of the $B^0 \rightarrow J/\psi \mu^+ \pi^-$ branching fraction, B. Aubert *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* (2002).

KANGA(ROO): Handling the micro-DST of the BaBar Experiment with ROOT, Stefan Kluth, *Computing Physics Communications* (2002).

The Silicon Vertex Tracker, B. Aubert, *et al.* (BABAR Collaboration) (2002).

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Measurement of the B^0 lifetime with partially reconstructed $B^0 \rightarrow D^{*+} D_s^{*-} \nu$ decays (B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2002, v. 89, article/page 011802 (2002).

GEANT4/Bogus simulation, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.*, Year 2002, v. 89, article/page 011802 (2002).

Measurement of the branching fraction and CP content of the decay $B^0 \rightarrow D^{*+} D^{*-}$, B. Aubert, *et al.* (BABAR Collaboration), Year 2002, v. 89, article/page 061801 (2002).

Direct CP violation searches in charmless hadronic B meson decays, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. D – Rapid Communications* Year 2002, v. 65, article/page 051101 (2002).

Measurement of the B^0 - B^0 bar oscillation frequency with inclusive dilepton events, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2002, v. 88, article/page 221803 (2002).

Study of CP-violating asymmetries in $B^0 \rightarrow \pi^+ \pi^-$, $K^+ \pi^-$ decays, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. D*, v. 65, article/page 051502 (2002).

Search for T and CP violation in B^0 - B^0 bar mixing with inclusive dilepton events, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2002, v. 88, article/page 231801 (2002).

Search for the rare decays $B \rightarrow K1+1$ and $B \rightarrow K^*1+1-$, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2002, v. 88, article/page 241801 (2002).

Observation of CP violation in the B^0 meson system, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2001, v. 87, article/page 091801.

Study of $B^\pm \rightarrow J/\psi \pi^\pm$ and $B^\pm \rightarrow J/\psi K^\pm$ decays: Measurement of the ratio of branching fractions and search for direct CP-violating charge asymmetries. B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. D*, v. 65, 09110 (2002).

Measurement of D_{s^+} and $D_{s^{*+}}$ production in B meson decays and from continuum e^+e^- annihilation at $\sqrt{s}=10.6$ GeV, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. D – Rapid Communications* Year 2002, v. 65, article/page 091104 (2002).

A study of time-dependent CP-violating asymmetries and flavor oscillations in neutral B decays at the Upsilon(4S), B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. D* Year 2002, v. 66, Article/Page 032003 (2002).

Measurement of B^0 - B^0 bar flavor oscillations in hadronic B^0 decays, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2002, v. 88, Article/Page 221802 (2002).

Search for lepton-flavor violation in e^+p collisions at HERA DESY-01-222. ZEUS Collaboration; S. Chekanov, *et al.*, *Phys. Rev. D* (December 2001).

Dijet photoproduction at HERA and the structure of the photon DESY-01-220. ZEUS Collaboration; S. Chekanov, *et al.*, *Europ. Phys. Journal C23* (2001) 4, 615-631 (December 2001).

High-mass dijet cross sections in photoproduction at HERA DESY 01-219. ZEUS Collaboration; S. Chekanov, *et al.*, *Phys. Lett. B531* (2002) 9-27 (December 2001).

Measurement of the photon-proton total cross-section at a center-of-mass energy of 209 GeV at HERA DESY-01-216. ZEUS Collaboration; S. Chekanov, *et al.*, *Nucl. Phys. B627* (2002) 3-28 (September 2001).

Searches for excited fermions in ep collisions at HERA DESY-01-132. ZEUS Collaboration; S. Chekanov, *et al.* Submitted to *Phys. Lett. B* (September 2001).

Dijet production in neutral current deep inelastic scattering at HERA DESY-01-127, ZEUS Collaboration; S. Chekanov, *et al.*, *Europ. Phys. Journal C23* (2001) 1, pp. 13-27 (August 2001).

Properties of hadronic final states in diffractive deep inelastic ep scattering at HERA DESY-01-097. ZEUS Collaboration; S. Chekanov, *et al.*, *Phys. Rev. D65*, 052001 (2002) (July 2001).

Three-jet production in diffractive deep inelastic scattering at HERA DESY-01-092. ZEUS Collaboration; S. Chekanov, *et al.*, *Phys. Lett. B 516* (2001) 3-4, pp. 273-292 (June 2001).

Measurement of the neutral current cross section and F_2 structure function for deep inelastic e^+p scattering at HERA DESY-01-064, ZEUS Collaboration; S. Chekanov, *et al.*, *Europ. Phys. Journal C21* (2001) 3, pp. 443-471 (May 2001).

Multiplicity moments in deep inelastic scattering at HERA DESY-01-053. ZEUS Collaboration; S. Chekanov, *et al.*, *Phys. Lett. B 510* (2001), 36-54 (April 2001).

Study of the effective transverse momentum of partons in the proton using prompt photons in photoproduction at HERA DESY 01-043, ZEUS Collaboration; S. Chekanov, *et al.*, *Phys. Lett. B 511* (2001), 19-32 (March 2001).

Luminosity Measurement in the ZEUS Experiment, ZEUS Luminosity Group, DESY 01-041 (March 2001).

Measurement of dijet production in neutral current deep inelastic scattering of high Q^2 and determination of α_s , DESY 01-018, ZEUS Collaboration; J. Breitweig, *et al.*, *Phys. Lett. B 507* (2001) 70-88 (February 2001).

Search for the decay $B^0 \rightarrow \gamma\gamma$, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2001, v. 87, article/page 241803 (2001).

Measurements of the branching fractions of exclusive charmless B meson decays with η' and ω mesons, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2001, v. 87, article/page 221802 (2001).

Measurement of the ratio of branching fractions $BF(B^+ \rightarrow J/\psi\pi^+)/BF(B^+ \rightarrow J/\psi K^+)$, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. D – Rapid Communications* Year 2002, v. 65, article/page 091101 (2002).

Measurements of the branching fractions for $\psi(2S) \rightarrow e^+e^-$ and $\Psi(2S) \rightarrow \mu^+\mu^-$, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. D*, Year 2001, v. 65, article/page 031101 (2002).

Measurement of the J/Ψ production in continuum e^+e^- annihilations near $\sqrt{s}=10.6$ GeV, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2001, v. 87, article/page 162002.

Measurement of the decays $B \rightarrow \phi K$ and $B \rightarrow \phi K^*$, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2001, v. 87, article/page 151801 (2001).

Measurement of branching fractions and search for CP-violating charge asymmetries in charmless two-body B decays into pions and kaons, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2001, v. 87, article/page 151802 (2001).

The BABAR detector, B. Aubert, *et al.* (BABAR Collaboration), *Nucl. Instr. And Meth.*, Year 2002, v. A479, article/page 1 (2001).

Measurement of the B^0 and B^+ meson lifetimes with fully reconstructed hadronic final states, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2001, v. 87, Article/Page 201803 (2001).

Measurement of the $B \rightarrow J/\Psi K^*(892)$ decay amplitudes, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2001, v. 87, article/page 241801.

Measurement of the $B \rightarrow K^*\gamma$ branching fractions and charge asymmetries, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2002, v. 88, Article/Page 101805 (2001).

Co-Author of Linear Collider Physics: Resource Book for Snowmass 2001, FERMILAB-Pub-01/058-E (423 pages); sole author of Chapter 14; e-e Collisions, 369-376.

Measurement of CP-violating asymmetries in B^0 decays to CP eigenstates, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* Year 2001, v. 86, Article/Page 2515-2522 (2001).

Search for the Decay $B^0 \rightarrow 4 \gamma\gamma$, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* 87, 241803 (2001), hep-ex/0107068.

Measurement of the $B \rightarrow J/\Psi/K^*(892)$ Decay Amplitudes, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* 87, 241801 (2001), hep-ex/0107049.

Measurements of the Branching Fractions of Exclusive Charmless B Meson Decays with q or w Mesons, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* 87, 221802 (2001), hepex/0108017.

Measurement of the B^0 and B^+ Meson Lifetimes with Fully Reconstructed Hadronic Final States, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* 87, 201803 (2001), hep-ex/0107019.

Measurement of J/Ψ Production in Continuum e^+e^- Annihilations Near $\sqrt{s} = 10.6$ -GeV, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* 87, 162002 (2001), hep-ex/0106044.

Measurement of Branching Fractions and Search for CP-Violating Charge Asymmetries in Charmless Two-body B Decays into Pions and kaons, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* 87, 151802 (2001), hep-ex/0105061.

Measurement of the Decays $B \rightarrow OK$ and $B \rightarrow OK^*$, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* 87, 151801 (2001), hep-ex/0105001.

Observation of CP Violation in the B^0 Meson System, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* 87, 091801 (2001), hep-ex/0107013.

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Measurement of CP Violating Asymmetries in B^0 Decays to CP Eigenstates, B. Aubert, *et al.* (BABAR Collaboration), *Phys. Rev. Lett.* 86, 2515 (2001), hep-ex/0102030.

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Measurement of open beauty production in photoproduction at HERA DESY 00-166, ZEUS Collaboration; J. Breitweg, *et al.*, *Europ. Phys. Journal C* 18 (2001) 625-637 (November 2000).

Measurement of dijet cross sections for events with a leading neutron in photoproduction at HERA DESY 00-142, ZEUS Collaboration; J. Breitweg, *et al.*, *Nucl. Phys. B* 596 (2001) 3-39 (October 2000).

A search for resonance decays to $\bar{\nu}$ -jet in e^+p scattering at HERA DESY 00-133, ZEUS Collaboration; J. Breitweg, *et al.*, *Phys. Rev. D* 63 (2001), Issue 5, Article #052002 (September 2000).

Measurement of exclusive ω electroproduction at HERA DESY 00-084, ZEUS Collaboration; J. Breitweg, *et al.*, *Phys. Lett. B* 487 (2000) 3-4, 273-288 (June 2000).

Measurement of the Proton Structure Function F_2 at Very Low Q^2 at HERA DESY 00-071, ZEUS Collaboration, J. Breitweg, *et al.*, *Phys. Lett. B* 487 (2000), 1-2, 53-73 (May 2000).

The Electron Linear Collider, C.A. Heusch, Proc. 8th Asia-Pacific Physics Conf. *APPC 2000*, pp. 584-591 (2000).

Measurement of the SMC Muon Beam Polarization Using the Asymmetry in the Elastic Scattering off Polarized Electrons, C.A. Heusch, *et al.*, *SMC. Nucl. Instrum. Methods A* 443, 1 (2000).

The Case for a 500 GeV $e+e^-$ Linear Collider, J. Bagger, C.A. Heusch, *et al.* (American Linear Collider Working Group, June 30, 2000), hep-ex/0007022.

Detector Challenges for $\mu^+ \mu^-$ Colliders in the 10-100 TeV Range, P. Rehak, C.A. Heusch *et al.*, *Proceedings of Colliders and Collider Physics at the Highest Energies* (HEMC99 Workshop), Sept. 27-October 1, Montauk, NY, 1999, ed. Bruce J. King, (AIP Conference Proceedings, Melville, NY 2000) vol. 530, p. 260.

Physics Opportunities with a High-Energy Collider of Same-Sign Muons, C.A. Heusch, in: *Colliders and Collider Physics at the Highest Energies*, AIP Conference Proceedings vol. 530, Melville, NY (1999).

The Linear Electron Collider: An Overview, Convenor's Report to the Sitges Meeting, C.A. Heusch, *Proc. of the LCW99, Physics and Experiments with Future $e+e^-$ Colliders*, Sitges, Barcelona, Spain, April 28-May 5, 1999, E. Fernandez, ed. (Barcelona University Press, 2000) p. 32.

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Heavy Majorana Neutrinos in High Energy $e-e^-$ Collisions Compared with Their Effects Inducing Neutrinoless Double Beta Decay, C.A. Heusch and P. Minkowski, *Proceedings of the 3rd International Workshop on Electron-Electron Interactions at TeV Energies (e-e- 99)*, Santa Cruz, California, December 10-12, 1999. *Int. J. Mod. Phys. B* 15, 2429 (2000).

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Measurement of the SMC Muon Beam Polarization Using the Asymmetry in the Elastic Scattering off Polarized Electrons, D. Adams *et al.*, Spin Muon Collaboration, *Nucl. Instrum. Methods* **A433**, 1 (2000).

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A Hodoscope/Spectrometer for High-Energy Photons with RX Kline, CX Prescott, S.J. Yellin, *Proceedings of International Conference on Instrumentation in High Energy Physics*, Dubna, U.S.S.R. (1970).

Recoil Proton Polarization in Eta Photoproduction with CX Prescott, L.S. Rochester, B.D. Winstein, *Phys. Rev. Lett.* 25, 1381 (1970).

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BOOKS

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e-e- 97, Proceedings of the Electron-Electron Linear Collider Workshop, Santa Cruz, CA., Sept. 22-24, 1997, C.A. Heusch, editor, *Int. J. Mod. Phys. 13* (1998).

e-e- 95, Proceedings of the Electron-Electron Linear Collider Workshop, Santa Cruz, CA., September, 1995, C.A. Heusch, editor, *Int. J. Mod. Phys. All* (1996).

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COLLEGE SERVICE

College Committees

- | | |
|-------------------|--|
| 1982-83 | Porter College Executive Committee |
| 1981-82 | Porter College Executive Committee |
| 1977-78 | College V Academic Standing Committee |
| 1976-77 | College V Academic Standing Committee |
| 1975-76 | College V Committee on Appointments and Promotions |
| 1973-74
(Fall) | College V Committee on Appointments and Promotions, Chairman |
| 1972-73 | College V Committee on Appointments and Promotions |

Other College Service

- | | |
|------|--|
| 1970 | Informal consultation with Provost & other college faculty |
|------|--|

UNIVERSITY SERVICE

Administrative Appointments

- | | |
|---------|---|
| 2000-02 | Director of Senior Theses, Physics Department |
|---------|---|

1999-2000	Director of Senior Theses, Physics Department
1996-97	Director of Senior Theses, Physics Department
1996-97	Physics Radiation Committee, Chair (rewrote the entire Physics Radiation Brochure)
1995-96	Director of Senior Theses, Physics Department
1995-96	Physics Radiation Committee, Chair
1994-95	Physics Library Committee Physics Undergraduate Advisor
1993-94	Physics Library Committee Physics Undergraduate Advisor
1992-93	Physics Library Committee Physics Undergraduate Advisor
1991-92	Physics Colloquium, Chair
1990-91	Physics Library Committee, Chair
1989-90	Physics Library Committee, Chair Physics Colloquium Committee, Chair
	Senior Thesis Director Academic Senate: Volunteered for Education Abroad Committee
1988-89	Physics Undergraduate Advisor Physics Board Space Committee Physics Board Library Committee
1987-88	Physics Undergraduate Advisor Physics Board Undergraduate Committee
1986-87	Physics Undergraduate Advisor Physics Board Undergraduate Committee
1985-present	Volunteered for service on Senate Committees on Education Abroad, and Research
1985-86	Physics Undergraduate Advisor
1984-85	Physics Board Graduate Committee
1982-83	Physics Board Graduate Committee Physics Board Colloquia Committee
1981-90	Physics Board Graduate Committee Physics Board Library Committee
1981-82	Various Ad Hoc Committees
1980-81	Physics Board Graduate Committee Physics Board Library Committee

1979-80	Physics Board Graduate Committee Physics Board Library Committee
1978-79	Physics Board Graduate Committee Acting Director, Santa Cruz Institute for Particle Physics
1977-78	Physics Board Graduate Committee Acting Director, Santa Cruz Institute for Particle Physics
1976-77	Physics Board Graduate Committee Acting Director, ORU Project for Particle Physics
1975-76	Physics Board Graduate Committee Physics Board Computer Committee, Chairman Principal Investigator, High Energy Physics
1974	Physics Board Graduate Committee Physics Board Computer Committee, Chairman Principal Investigator, High Energy Physics
1973	Physics Board Graduate Committee, Chairman Physics Board Space Committee, Chairman Principal Investigator, High Energy Physics
1972	Physics Board Graduate Committee, Chairman Physics Board Space Committee Principal Investigator, High Energy Physics
1971	Physics Board Graduate Committee High Energy Physics Group Organization
1970	Physics Board Graduate Committee High Energy Physics Group Organization

Academic Senate Committees

- 2001 Education Abroad Committee
- 1970-Present Volunteered service on various committees: Education Abroad, Research, etc.
- 1974 Divisional Advisory Committee, Natural Sciences Division
Physics Graduate Representative
- 1973 Divisional Advisory Committee, Natural Sciences Division

Other University Service

- 1980-Present Various review and ad hoc committees
- 1979-80 Review Committees
Ad Hoc Committees
- 1978-79 Various Ad Hoc and Review Committees
- 1977-78 Review Committees
Computer Advisory Committee
- 1976-77 Review Committees
Computer Advisory Committee
- 1975-76 Review Committees
Computer Advisory Committee
- 1974 Various Ad Hoc Committees
Review Committees
- 1973 Computer Advisory Committee
Subcommittee on long-range Computer Planning, Chairman
- 1972 Computer Advisory Committee

PROFESSIONAL ACTIVITIES

Consultative or Other Service to Civic, State, or National Governmental Agencies

- 1996 Chairman and Convenor, Snowmass Study: New Direction in High Energy Physics Working Group 11
- 1995-present Convenor of e-e- Linear Collider Working Group
- 1990-present Advisor to Alexander von Humboldt Foundation, Bonn, Germany
- 1996-present National, international and European (ECFA/DESY) convenor for the e-e Working Group of the Linear Collider project.
- 1995 Convenor of Working Group II (e-e-, gamma-e, gamma-gamma) of U.S. Linear Collider effort.
- 1995 Elected to Board of Directors, Cymbolic Sciences, Inc., Richmond, B.C.

- Visiting Professor, Technical University, Aachen, Germany.
Lecture series on Linear Colliders.
- 1994-96 Co-convenor, European Working Groups on Linear Collider Physics (Extended Gauge Theories).
- 1994 Chairman and organizer, International e-e- Working Group.
- 1991 Consultant to Humboldt Foundation, Bonn, Germany.
Member of International Advisory Committees to various Conferences, Workshops, Meetings.
- 1991 Visiting Professor, University of Pavia, Italy;
Lecture Series: The Flavors of Elementary Particles (Feb.)
- 1990-95 Member of Executive Committee, Spin Muon Collaboration.
- 1990-91 Visiting Scientist, CERN, Geneva, Switzerland
- 1990 Chairman, Task Force on Inter-American Collaboration on Particle Physics
Chairman, Binational Committees US/Mexico, US/Brazil, US/Argentina
Advisor on Foreign Scientific Participation to the Director of the Stanford Linear Accelerator Center
- 1990 International Advisory Committee, San Miniato Conference Series, San Miniato, Italy
- 1990 Chairman and Principal Investigator, I st US/Latin American Symposium on Physics, Technology and Experiments at the Supercollider, Guanajuato, Mexico, Dec. 1990.
- 1988-92 Chairman of Inter-American Coordination Committee for the Superconducting Supercollider, running workshops and lecturing in many Central and South American countries, signing Memoranda of Understanding for Financial Contributions from Brazil, before the SSC Project was abandoned.
- 1989-Present Member of Editorial Board, Particle World (International Journal on Particle Physics).
Consultant on International Relations, Superconducting Supercollider Laboratory
- 1986-90 Member of International Advisory Boards to various International Conferences and Workshops
- 1985-92 Member of Collaboration Board, New Muon Collaboration, CERN, Geneva
- 1984-85 Consultant to European Physical Society; member, International Advisory Committee for 1985 EPS International Conference on High Energy Physics, Bavi, Italy.
- 1984-1990 Consultant to Government of Kingdom of Spain; foreign member, Steering Committee of Spanish National Funding Agency for Nuclear and Particle Physics.
- 1983 Consultant to National Academy of Sciences on International Cooperation on Science and Technology.

- 1982-83 Member of Steering Committee, ELECTRA Collaboration, CERN.
- 1980 Visiting Professor, Technical University of Aachen, Germany
- 1977-Present Referee for NSF, DOE (AEC, ERDA) research proposals
- 1976-85 Reviewer for Physical Review and Physical Review Letters
- 1974-75 Visiting Professor of Physics, University of Munich, Germany
Visiting Associate, European Center for Nuclear Research, Geneva, Switzerland
- 1974-75 Reviewer of Experiment Proposals submitted to European Center for Nuclear Research, CERN
- 1974 Visiting Scientist, Max-Planck Institute for Physics and AstroPhysics, Munich, Germany
Visiting Associate, European Center for Nuclear Research, Geneva, Switzerland
- 1970-72 Visiting Professor and Visiting Associate in Physics, California Institute of Technology
- 1970-71 Consultant to the National Accelerator Laboratory, Batavia, Illinois
- 1970-72 Member of Program Advisory Committee, Cambridge Electron Accelerator, Harvard University
- 1970-73 Member of Program Committee, Argonne National Laboratory, Argonne, Illinois
Reviewer of research proposals submitted to the NSF and to the Atomic Energy Commission

Participation in Public Lectures or Fora (see also Conferences, pp. 45-ff)

- 1997 SMC/NMC Symposium on Deeply Inelastic Scattering, Santiago de Compostela/Spain
Invited Speaker Flavor-Changing Neutral Currents Symposium UCLA, Session Chairman
- Rencontres de Physique de la Vallee d'Aoste, Session Chairman, Round Table Reporter on Linear Colliders
- QLEN Osaka/Japan (Quarks and Leptons in Nuclear Matter)
- Invited Speaker, BaBar Physics Meeting, Orsay, France
- 1996 Linear Collider Workshop, Frascati, Italy, Invited Speaker/Convenor
- 7th International Workshop on Neutrino Telescopes, Venice, Italy, Invited Speaker
- Recontre de Physique de la Valle'e d'Aoste, Invited Speaker
- SLAC 2000: Invited Speaker and Proponent of SLAC as an e-e- Collider
- Sakharov Symposium, Moscow, Russia, Invited Speaker
- Linear Collider, Detector Workshop, MPI Munich/Germany; Invited Speaker/Discussion Leader

- International Conference on Polarization in Particle Physics, Lecee/Italy; Invited Speaker
- Linear Collider Final Meeting, DESY, Hamburg, Germany Invited Speaker/Session Chairman
- 1995
- Linear Collider Workshop, Annecy, France (Feb).
 - Rencontre de Physique de la Vallee d'Aoste, Italy. Invited speaker (March).
 - Linear Collider Conference, Tsukuba, Japan (March).
 - Linear Collider Workshop, Gran Sasso, Italy (June).
 - US Linear Collider Workshop, Estes Park, Colorado (June).
 - Humboldt Symposium, Bonn, Germany--honoree (July).
 - Linear Collider Workshop, DESY, Hamburg, Germany (Aug.).
 - e-e-95. First Electron-Electron Workshop, UCSC Organizer, Conference Chairman, Speaker (Sept.).
 - Linear Collider Conference, Morioka, Japan (Sept.).
 - Linear Collider Conference, Fermilab, Batavia, 111. (for all Linear Collider workshops and conferences, I shared organizational duties and served as multiple speaker and convenor).
- 1993
- Spin Physics, Yale University. Disc. leader (Jan.).
 - BaBar Coll. Meeting, SLAC. Speaker on Calorimetry (Feb.)
 - Electroweak Symmetry Breaking Workshop, UCSB. Invited Speaker. Contributor to resulting book (Feb.).
 - Gamma-Gamma Workshop, LBL. Co-covenor/speaker (March).
 - International Neutrino Conference, Eilat, Israel. Invited Speaker (May).
 - First Arctic Workshop on the Future of Particle Physics, Saariselka, Finland. Invited Speaker (August).
 - Hadron 94, Uzhgorod, Ukraine. Invited Lecturer (Sept.).
 - Muon Collider Workshop, Sausalito, CA. Invited Speaker (Nov.).
- 1993
- Rencontre de Physique de la Vallee d'Aoste, Italy. Invited Speaker, Session Chairman (Feb.).
 - Public Address. Particle Physics as a National Priority, Aosta, Italy (March).
 - Physics and Experiments with Linear Colliders, Waikola, Hawaii. Multiple speaker, session organizer (April).
 - Summer Institute in Particle Physics, Zakopane, Poland. Invited Speaker, 2 lectures (June).
 - Linear Collider Workshop, SLAC. Several talks (Oct.).
 - B Factory Workshop, SLAC. Several talks (Nov.- Dec.).
- 1992
- Large Hadron Collider presentations, Evians-les-Bains sub-rapporteur on tracking calorimetry (March).
 - Rencontre de Physique de la Vallee d'Aoste, La Thuile. Invited Speaker, Session Chairman (March).
 - Rencontre de Moriond, Les Arcs, France. Invited speaker (March).
 - Years of QCD. Invited Talk: Gluonium, An Unfulfilled Promise of QCD (June).
 - Linear Collider Workshop, Garmisch-Partenkirchen, Germany. Invited Speaker, Co-convenor (July).
 - Pan American Conference on Experimental Physics, Cartagena, Colombia. U.S. delegate and invited speaker (Aug.).
 - Galileo Memorial Conference, Padua, Italy. Invited Speaker (Dec.). Spin Physics Meeting Amsterdam, Holland. Speaker (Dec.).
- 1991
- Chairman of SSC Information Meeting, Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro (April).
 - Invited Speaker, PASCOS 1991, Northeastern University (March).

Invited Speaker, Humboldt Meeting, Rottach-Egern (March).
 Invited Speaker and Session Chairman, Tau Charm Factory Workshop, Sevilla, Spain (April).
 Invited Speaker, ZEUS Collaboration Meeting, DESY, Hamburg, Germany (March).
 Speaker, Linear Collider Workshop, Annecy, France (June).
 Invited Speaker, San Miniato Workshop, Italy (June).
 Invited Speaker, Humboldt Symposium, Magdeburg, Germany (July).
 Session Chairman and invited speaker, EPS Conference on Particle Physics, Geneva, Switzerland.
 Principal Speaker, Cherenkov Memorial Symposium, Moscow, USSR (Aug.).
 Invited Speaker, Humboldt Symposium, San Diego, CA (Sept.).
 Subsection organizer and speaker, SSC Instrumentation Conference, Corpus Christi, TX (Oct.).

1990-91 Invited Speaker and Session Chairman, International Rencontre de la Vallee d'Aoste, La Thuile, Italy, March 1991.
 Invited Speaker, International Conference on Liquid State Electronics, Grenoble, France, Sept. 1990
 Session Chairman and Convener, Tau Lepton Workshop, Orsay, France Sept. 1990
 Invited Speaker, LHC Detector Workshop, Aachen, Germany Oct. 1990
 Invited Speaker, Supercollider Detector Symposium, Fort Worth, Texas Oct. 1990
 Chairman of International Organizing Committee, First US/Latin American Symposium on Supercollider Physics & Technology Guanajuato, Mexico, Dec. 1990
 Speaker, 10th International Conference on Conduction and Breakdown in Dielectric Liquids, Grenoble, France. Sept. 1990.
 Session Chairman, Workshop on Tau Lepton Physics, Orsay, France. Sept. 1990
 Speaker, Tau/Charm Workshop Geneva, Switzerland. Sept. 1990
 Speaker, ECFA Large Hadron Collider Workshop, Aachen, Germany. October 1990
 Speaker, Symposium on Detector Research and Development for the Supercollider, Dallas, Texas. Oct. 1990.
 Conference Chairmas/Speaker, First US/Latin American Symposium on Physics, Technology, and Experiments at the Supercollider, Guanajuato, Mexico. Dec. 1990
 Speaker/Session Chairman, Rencontre de Physique de la Vallee d'Aoste, LaThuile, Italy. March 1991
 Humboldt Symposium, Rottach-Egern, Germany. March 1991
 Speaker, Particles, Cosmology and Strings, Boston, MA. March 1991
 Speaker, Tau/Charm Factory Workshop, Sevilla, Spain. April 1991
 Linear Collider Working Group, Annecy, France. Working group participant *e-e*-physics. May 1991
 Speaker/Member of Advisory Board. International Workshop on Heavy Flavors, San Miniato, Italy. June 1991

Seminars:

2001 Max Planck Institute, Munich, Germany, "Non-Isotropic Heat Transfer Mechanisms and Their Application," May 1st.
 2000 University of Trieste, Italy, "Comparison of LHC and Linear Collider as SUSY Discovery Machines." December 8th.
 University of Udine, Italy, "Collider Lineare Tipo e-e" (in Italian). December 7th.

- Tech. University, Aachen, Germany, "Precision Measurements at a TeV Electron L.C." August 29th.
 KEK Tsukuba, Japan, "The Electron Linear Collider." August 14th.
 Max Planck Institute, Munich, Germany, "Precision Measurements at a TeV Electron L.C." June 5th.
 University of Munich, Germany, "The BaBar Experiment at SLAC." May 15th.
- 1999
 Technical University, Dresden, Germany, "How to Reach Clean Signals for Majorana Neutrinos." July 12th.
 University of Roma, "La Sapienza," "Beyond the Standard Model, Courtesy of e-e Colliders." April 8th.
 University of Bern, Switzerland, "Physics Promise of Same-Sign Lepton Colliders."
 University of Lecce, Italy, "How to Chase a TeV Majorana Neutrino, and Why?" March 10th.
 University of Pavia, Italy, same title.
 DESY, Hamburg, Germany, "Physics of Like-Sign Lepton Colliders." February 9th.
- 1998
 University of Bern, Switzerland, "How to Reach High Luminosity in e-e Collisions." November 23rd.
 Max Planck Institute, Munich, "The Physics of Same-Sign Lepton Colliders." October 27th.
 M.I.T., "Symmetry Arguments for Running TeV Electron Colliders." April 24th.
 Harvard University. "Like-Sign Lepton Colliders." April 23rd.
 Princeton University. "Like-Sign Lepton Colliders." April 22nd.
- 1997
 Bern University, Switzerland
 CERN/SMC
 Technical University, Aachen, Germany
 Paul Scherrer Institute, Villigen, Switzerland
 University of Santiago de Compostela, Spain
- 1996
 Lebedev Institute, Moscow, Russia. "Results of the Spin-Muon Collaboration. May 24th.
 Moscow State University, Russia. "Heavy Neutrinos in Double Beta Decay and in Electron Colliders." May 23rd.
 Paul Scherrer Institute, Villigen, Switzerland. "Møller Scattering and Beyond." May 15th.
 Bowdoin College, "Linear Colliders: A New Technical Challenge." April 25th.
 UC Santa Cruz
 Max Planck Institute for Physics, Munich, Germany
 Technical University, Aachen, Germany
 Technical University, Dresden, Germany
- 1995
 UC San Diego (Feb.)
 UC Irvine (Feb.)
 University of INFN, Trieste, Italy (March).
 University of Udine, Italy (March).
 University of Bern, Switzerland (March).
 SMC Seminar, CERN, Geneva, Switzerland (Aug.).
 University of Turku, Finland (Dec.).
- 1994
 Bern University, Colloquium (April).
 Bern University, HEP Seminar (April).
 Technical University, Dresden, Germany (Aug.).
 University of Helsinki, Finland (Aug.).
 Russian Academy of Sciences, Gatchina, St. Petersburg (Sept.)
 Minsk, Belarus: Academy of Sciences and University (Sept.)
 University of Bern, Switzerland (Dec.).
 Max Planck Institute, Munich, Germany (Dec.).

- 1993 UC San Diego (Jan.).
 UC Santa Cruz, Colloquium (Feb.).
 San Diego, Colloquium (March).
 SMC Seminar, CERN, Geneva, Switzerland (March).
 HEP Seminar, UC Santa Cruz (May).
 ZEUS Collaboration Seminar, DESY, Hamburg, Germany (May).
 DESY, Zeuthen (Sept.).
- 1992 UNAM, Mexico City (Jan.).
 CINVESTAV, Mexico City (Jan.).
 Santa Cruz, CA. (Feb.).
 SMC Seminar, CERN (June).
 DESY, Hamburg, Germany (Sept.)
 Universidad de los Andes, Bogotá, Colombia (Aug.).
- 1991 Speaker/Cherenkov Memorial Symposium, Moscow, USSR (August).
 Speaker/Alexander von Humboldt Symposium, Magdeburg, Germany (July).
 Laboratori Nazionali del INFN, Frascati, Italy. "Scalar Gluonium Search at
 DAONE" (June).
 Spanish Winter School, San Feliu de Guijols, Spain. "Status of the SSC" (May).
 CERN, Geneva, Switzerland. "Deeply Inelastic Scattering: What Happens to the
 Lepton?" (May).
 DESY, Hamburg, Germany. (ZEUS Collaboration Meeting) (May).
 Rio de Janeiro State University, Rio de Janeiro, Brazil. "The Flavors of Elementary
 Particles" (April).
 Rio de Janeiro Federal University, Rio de Janeiro, Brazil. "Looking for Lepton
 Flavor Mixing" (April).
 Catholic University, Rio de Janeiro, Brazil. "Time Reversal Invariance" (April).
 Catholic University, Rio de Janeiro, Brazil. "The Search for Quarkless Hadrons"
 (April).
 Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro, Brazil. "The SSC Project"
 (April).
 University of São Paulo, São, Paulo, Brazil. "Hunting Tiny Particles with Huge
 Machines."
 DESY, Hamburg, Germany. "The Status of Gluonium" (April).
 Eight lectures at the University of Pavia, Italy. "The Flavors of Elementary
 Particles" (Feb.).
 Max Planck Institute for Physics and Astrophysics, Munich, Germany. "Are there
 Quarkless Hadrons?" (Jan.).
- 1990 University of Aachen, Germany, "Progress on the Supercollider" (Dec.).
 Divisional Colloquium, CERN (Dec.).
 Colloquium, University of Bern, Switzerland (Dec.).
 Colloquium, University of Kaiserslautern, Germany (Dec.).
 University of Paris VII, Paris, France (Dec.).
 SMC Progress Seminar, CERN, Geneva, Switzerland (Aug.).
 Participant and Speaker, Snowmass Summer Study, Snowmass, Colorado (July).
 PPE Seminar, CERN, Geneva, Switzerland (June).
 Italian National Laboratories, Frascati, Rome, Italy (June).
 University of Bern, Switzerland (May).
 Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro (April).
 Catholic University, Rio de Janeiro, Brazil (April).
 Rio de Janeiro State University (April).
 Invited Speaker and Session Chairman, XXVth International Rencontre de Moriond,
 Les Arcs, France (March).
 Participant and Speaker, Symposium on SSC Detector Technology, Tucson, AZ
 (March).

Invited Speaker, International Rencontre de Physique de la Vallee d' Aoste, La Thuile, Italy (Feb.)

- 1988-89 Delegate to Pan American Symposium on Experimental Physics, San Carlos, Argentina, Nov. 1989.
Invited Speaker and Session Organizer, Hadron 1989, Ajaccio, Corsica, September 1989.
Lecturer, Hellenic Summer School on Particle Physics, Corfu, Greece, September 1989.
Member of Organizing Committee and Invited Speaker, Tau/Charm Workshop Stanford, May 1989
Invited Speaker, International Conference on Weak Interactions, Galilee, Israel, April 1989.
Invited Speaker, 3rd International Rencontre de la Vallee d'Aoste: Perspectives in Particle Physics, February-March 1989.
Symposium in Honor of Murray Gell-Mann, California Institute of Technology, January 1989.
Invited Speaker, International Workshop on Liquid State Electronics, Berlin, Germany, November 1988.
Invited Speaker, QCD Theory Workshop, DESY, Hamburg, Germany, September 1988.
Invited Speaker, Science, Culture and Peace Symposium in Honor of Victor Weisskopf, CERN, Geneva, September 1988.
Delegate to XXIIIrd International Conference on High Energy Physics, Munich, Germany, August 1988.

Seminars and Colloquia

California Institute of Technology
University of Aachen
CERN
University of Munich

- 1987-88 Participant and subgroup organizer, Snowmass Study of the APS Division of Particles and Fields, *Physics in the 1990s*, June-July 1988.
Invited Speaker and Session Chairman, Workshop on Advanced Technology and Particle Physics, Como, Italy, June 1988.
Invited speaker, session chairman, International Rencontre de Moriond, Les Arcs, France, March 1988.
U.S. Delegate to Pan American Symposium in Collaboration in Physics, Rio de Janeiro, Brazil, October 1987.
Lecturer at Subnuclear School, Eltore Majorana Center, Erice, Sicily, August 1987.
Delegate to Lepton-Photon Symposium, Hamburg, Germany, July, 1987.
Participant in SSC Workshop on Detectors and Physics for Supercollider, Berkeley, July 1987.
University of Rio de Janeiro, Brazil University of Munich
University of Aachen National Defense University, Changsha, China
UCLA
- 1986-87 Organizer of Mark III Workshop, Hillsborough. Speaker at workshop, May 1987.
Participant, Hadron-87, Tsukuba, Japan, April 1987.
Lecturer at Chinese Academy of Sciences, Beijing, PRC;
Consultant to Institute of High Energy Physics, Beijing, March-April 1987.
Participant and session chairman, International Rencontre de Physique, Perspectives in Particle Physics, LaThuile, Italy, March 1987.
Invited speaker, Conference on 4th Family of Leptons and Quarks, UCLA, February 1987.

- Invited speaker at opening session of Annual Meeting of Italian Physical Society, Padora, Italy, October 1987.
- Co-organizer of working group on compositeness, LEP 200 Workshop, Aachen, Germany, September, 1986
- University of Valencia, Spain
- University of Munich
- University of Aachen
- UCSC
- 1985-86
- Chairman, Head of US Delegation, US/Spanish Collaboration Symposium, El Saber, Valencia, Spain, May 1986.
- Invited speaker, International symposium on Multiparticle Dynamics, Seewinkel, Austria, June 1986.
- Member, International Advisory Committee, San Miniato Workshop, May 1986.
- Participant, 2nd ESO/CERN Symposium in Particle Astrophysics, Munich, Germany, March 1986.
- Invited speaker, International Rencontre de Morionds, Les Arcs, France, March 1986.
- Invited speaker, Main meeting of European Muon Collaboration, Lake Balaton, Hungary, September 1985.
- U.S. delegate to International Lepton-Photon Symposium, Kyoto, Japan, August 1985.
- Member, International Advisory Committee, International EPS Conference on High Energy Physics, Bari, Italy, July 1985.
- Invited speaker, San Miniato Workshop on Few- and Many-Quark Systems, San Miniato, Italy, March 1985.
- Junta de Energia Nuclear, Madrid
- MPI, Munich
- University of Coimbra, Portugal
- University of Aachen, Germany
- 1984-85
- Invited Lecturer, Int'l Workshop "Quarks and Gluons in Nucleons and Nuclei," San Miniato, Italy, March 1985.
- Member of Int'l Advisory Committee, EPS International Conference on High Energy Physics, Bari, Italy, July 1985
- Delegate to Int'l Symposium on Composite Models of Quarks and Leptons, Tokyo, August 1985
- Delegate to Int'l Symposium on Lepton and Photon Interactions at High Energy Physics, Kyoto, August 1985
- 1983-84
- Lecturer, Yukon Advanced Study Institute, "The Quark Structures of Matter," Whitehorse, Y.T., Canada, August, 1984
- Lecturer, School of Subnuclear Physics, "Ettore Majorana," Erice, Sicily, August, 1984
- Aachen Technical University, Aachen, Germany, July 8, 1984
- Invited Speaker, International Seminar on the Cherenkov Effect and Its Application in Science and Technology, Moscow, July, 1984
- German Academy of Sciences, Berlin, Germany, June 20, 1984
- Workshop Participant and Speaker, 1984 Summer Study of the Division of Particles & Fields of the APS, Snowmass, Colorado, June, 1984
- Oxford University, May 24, 1984
- Cambridge University, May 23, 1984
- Rutherford National Laboratory, Abingdon, UK, May 21, 1984
- Technical University, Karlsruhe, Germany, May 18, 1984
- Slovak Academy of Sciences, Bratislava, CSR, May 12, 1984
- Austrian Academy of Sciences, Vienna, Austria, May 10, 1984
- University of Madrid, Spain, April 24, 1984
- Max Planck Institute, Munich, Germany, April 3, 1984

- Invited Speaker, Workshop on Intermediate-Energy Nuclear and Particle Freiburg, Germany, April, 1984
- Invited Speaker, 1984 Rencontre de Moriond, La Plagne, Savoie, March University of Torino, Italy, March 23, 1984
- L.A.P.P., Annecy, France, March 16, 1984
- Free University, Brussels, Belgium, February 10, 1984
- Visiting Lecturer, International Center for Theoretical Physics, Trieste, Italy, February 28-29, 1984
- University of Bologna, Italy, January 25, 1984
- Lecturer, Nordic Winter Meeting on Elementary Particle Physics, Spatind, Norway, January, 1984
- Invited Speaker, Calorimetry Workshop, Technical University of Aachen, Germany, December 1983
- CERN, Geneva, Switzerland, December 19, 1983
- DESY University of Hamburg, Germany, December 6, 1983
- University of Wuppertal, Germany, November 9, 1983
- University of Munich, Germany, November 7, 1983
- University of Paris, France, October 25, 1983
- Technical University of Aachen, Germany, October 17, 1983
- 1982-83 Delegate to 20th International Symposium on Lepton and Photon Physics, Cornell University, August 1983,
- Invited Speaker, International Cosmic Ray Conference, Bangalore, India, August 1983.
- Lecturer, Cargese Advanced Study Institute in Particle Physics, Cargese, Corsica, July 1983.
- Speaker at the XIV International Multiparticle Symposium, Lake Tahoe, California, June 1983
- University of Aachen, Germany
- University of California, Santa Cruz
- University of Munich, Germany
- 1981-82 Lecturer, International School of Subnuclear Physics, Erice, Sicily, August 1982
- Lecturer, XXII Krakow School of Theoretical Physics, Zakopane, Poland, June, 1982
- Invited Speaker, International Workshop on Heavy Flavors, Les Arcs, France, January, 1982
- Chairman, Organizing Committee, Particles & Fields 1981, Santa Cruz, September, 1981
- Invited representative of the University of California, 30th Anniversary Symposium of INFN, Rome, Italy, 1981
- University of Paris, France
- Weizmann Institute of Science, Rehovot, Israel
- 1980-81 Participant and Subcommittee organizer, Stanford Linear Collider Workshop, Summer 1981
- Lecturer at Stanford Summer Institute on Particle Physics, July/August, 1981
- Delegate to International Conference on Experimentation at LEP, Villars, Switzerland, June, 1981
- Organizer, SCIPP Inaugural Symposium, UCSC, January, 1981
- Lecturer at 15th Rencontre de Moriond, Les Arcs, France, 1980
- Lecturer at International School for Theoretical Physics, Zakopane, Poland, 1980
- University of Aachen, Germany
- Jagellonia University, Krakow, Poland
- Oxford University, United Kingdom
- University of Munchen, Germany
- Invited Speaker at the XIth International Multiparticle Symposium, Brugge, Belgium, 1980

Stanford University, Stanford

- 1979-80 Visiting Professor, University of Aachen, May-August, 1980
Delegate to, and speaker at, Neutrino 1979, Bergen, Norway
Invited Lecturer and consultant, Academia Sinica and Institute for High Energy Physics, Peking, PRC, September, 1979
Invited Speaker at International Multiparticle Symposium, Goa, India, September, 1979
University of California, Santa Cruz
University of Paris, Orsay, France
University of Munich, Germany
University of Aachen, Germany
CERN, Geneva, Switzerland
Fermi National Accelerator Laboratory, Illinois
- 1978-79 Delegate to EPS International Conference on High Energy Physics Geneva, Switzerland, July 1979
Invited Speaker at International Meeting on Exotic Resonances, Hiroshima, Japan, September 1978
University of Hawaii, Honolulu
University of California, Santa Cruz
University of Bielefeld, Germany
DESY, Hamburg, Germany
Tata Institute for Fundamental Studies, Bombay, India
Delhi University, New Delhi, India
University of California, Irvine
- 1977-78 Delegate to the 19th International Conference on High Energy Physics, Tokyo, August 1978
Invited Speaker at International Meeting on Frontier of Physics, Singapore, August 1978
Invited Speaker, Photon Workshop, FermiLab, Batavia, Illinois, August 1978
Invited Speaker, 13th Rencontre de Moriond, Les Ares, France, March 1978
Delegate to International Meeting on Experimental Methods in $e+e-$ Interactions, Novosibirsk, USSR, September 1977
CERN, Geneva, Switzerland
Max-Planck Institute, Munich, Germany
University of Aachen, Germany
University of Wuppertal, Germany
University of Paris, XI, Orsay, France
- 1976-77 Delegate to International Lepton-Photon Symposium, Hamburg, Germany, August 1977
Invited Speaker, Neutrino Conference 1977, Elbrus, Caucasus, USSR, June 1977
Invited Lecturer, International School of Theoretical Physics, Zakopane, Poland, May 1977
Invited Speaker, XIIth International Rencontre de Moriond, Flaine, France, March 1977
DESY, University of Hamburg, Germany
University of Munich, Germany
University of British Columbia, Vancouver, B.C., Canada
University of Washington, Seattle, Washington
University of California, San Diego, California
Jagellonia University, Krakow, Poland
Lebedev Institute, USSR Academy of Sciences, Moscow, USSR
- 1975-76 Organizer and Chairman (plus invited speaker), Lepton Scattering Session of Gordon Conference, New Hampshire, August 1976

Summary Speaker on Muon Physics, International Neutrino Conference, Aachen, Germany, June 1976
Argonne National Laboratory, Argonne, Illinois
Fermi National Accelerator Laboratory, Batavia, Illinois
University of California, Santa Barbara
University of California, Irvine
University of California, Los Angeles

- 1974-75 Invited Lecturer, International School of Subnuclear Physics, Erice, Sicily, July 1975
Invited Speaker, on Electromagnetic Interactions, International Rencontre de Moriond, February 1975
Max Planck Institute for Physics and Astrophysics, Munich, Germany (several)
Technical University, Karlsruhe, Germany
European Center for Nuclear Research, Geneva, Switzerland
DESY, University of Hamburg, Germany
University of Paris, France
Linear Accelerator Laboratory, Orsay, France
Nuclear Research Center, Saclay, France
University of Aachen, Germany
University of Bonn, Germany
University of Munich, Germany (several)
Technical University of Munchen, Germany
Rutherford High Energy Laboratory, Oxford, England
Daresbury National Laboratory, Liverpool, England
University of Torino, Italy
University of Genova, Italy
National Laboratories, Frascati, Rome
University of Naples, Italy
University of California, Santa Cruz
Weizmann Institute of Science, Rehovoth, Israel
Tel Aviv University, Tel Aviv, Israel
Technion, Haifa, Israel
- 1973-74 Invited lecturer at International School of Subnuclear Physics, Erice, Sicily, 1974
Invited Speaker at Topical Conference on $e+e-$ Physics, Trieste, Italy, 1974
Invited Speaker at International Conference on High Energy Physics, London, England, 1974
- 1972-73 Invited Lecturer at International Conferences on: Electromagnetic Interactions, Meribel, France, 1972
High Energy Interactions, Louvain, Belgium, 1973
- 1971-72 Invited Lecturer at International Conference on Photon Interaction at Very High Energies, Batavia, Illinois, November 1971
- 1971-74 Seminar and colloquium speaker at a number of Universities, such as:
Cal Tech
Harvard University
UC Berkeley
UC Santa Barbara
UCLA
UC Irvine
MIT
Rockefeller University
Aachen, Germany
Milan, Italy
Torino, Italy
Karlsruhe, Germany

Geneva, Switzerland
Paris, France
Cambridge, England

Invited participant in, or delegate to, Official International Conferences

- 2001 “e-e-01” Santa Cruz, CA. (1) A Post-Snowmass Update of the e-e- Collider. (2) The Continued Saga of e-e- \rightarrow W-W- vs. Neutrinoless Double Beta Decay. Dec. 7-9
Lomonossov Conference, Moscow, Russia, The Linear Electron Collider, Aug. 23-28
Snowmass Summer Study: convenor of e-e- Working Group. Various talks in the e-e-, gamma, and gamma-gamma Working Groups. Plenary talk: News from the e-e- Front. June 30-Jul. 20
SUSY Workshop, Aachen, Germany, e-e- Collisions Give Access to the Neutralino Mass Matrix, June 6-8
Rencontre de LaThuile, Italy, What Chances on Neutrino Masses? Mar. 4-10
- 2000 ITP Santa Barbara, CA, Future Collider Workshop, Physics and Technology of e-e-gamma Collisions, Oct. 23rd
Polarization Workshop, Lecce, Italy. “Importance of Polarization in e-e- Collisions.” Sept. 26-28
Linear Collider Instrumentation, Munich. “e-e- Demands on the L.C. Detector” and Snowmass Report. Sept. 15-17
Snowmass Summer Study, Snowmass, CO. e-e- Introduction, many talks. June 25-July 12
Sakharov Conference, Moscow, Russia, talk on “Heavy N-M in Neutrinoless Double Beta Decay and in e-e- Collisions.” May 20-25
SLAC 2000 New Ideas Forum, “Does It Make Sense to Collide e-e- in the SLC?” April 9th
Neutrino Telescopes, Venice, Italy, “How to Look for Heavy Majorana Neutrinos.” Feb. 26-29
Linear Collider (L.C.) Detector Workshop, Frascati, Italy, talk on “Tracking Calorimetry.” Feb. 2-7
- 1999 ECFA/DESY Detector Meeting, CERN, TMPb as a Potential Calorimetric Medium. Dec. 16-17
“e-e-99,” Santa Cruz, CA. (1) The Electron-Electron Version of the Linear Collider: A Millennium Update. (2) Heavy Majorana Neutrinos in e-e-Collisions Compared with their Effects on Neutrinoless Double Beta Decay. Dec. 10-12
ECFA/DESY Obernai, France. (1) e-e-, e-gamma Spectra, Polarizations, Lum’s. (2) e-e- Physics Highlights: Heavy M. Neutrinos. Oct. 16-19
High-Energy Muon Collider, Montauk L.I., Comparing Same-Sign Electron and Muon Coll’s. Sept. 26-Oct. 1
L.C. Detector Meeting, CERN, Geneva, Tracking Calorimetry, Dream or Reality. July 5th
LCWS ’99, Sitges, Spain. (1) e-e- Introduction, Highlights. (2) Access to SUSY Parameters in e-e-. (3) Heavy Majorana Neutrinos. (4) Novel Calorimetric Techniques. April 25-May 1
L.C. Working Groups, Ann Arbor, MI, Heavy Majorana Neutrinos and Their Signals. Mar. 28-30
ECFA/DESY Oxford, England, Access to the Neutralino Mass Matrix in e-e-. Mar. 20-23
Rencontre de LaThuile, Italy, Session Chairman, Public Outreach Talk. March 3-6
Neutrino Telescopes, Venice, Italy, How to Prove the Majorana Character of Heavy Neutrinos. Feb. 23-26

- 1998 L.C. Frascati, Italy. (1) e-e- \rightarrow W-W-. (2) New Calorimetry. (3) SUSY in e-e- Collisions. Nov. 11-Dec. 10
 ECFA/DESY Detector Meeting Hamburg, Germany, Alternative Calorimetry Technologies. Oct. 5-7
 L.C. Keystone, Colorado, W.G. Leader: New Phenomena, Majorana Neutrinos. Sept. 25-29
 ECFA/DESY, Orsay, France. (1) SUSY in e-e- Collisions. (2) Special Detector Needs of the e-e- Collider. June 28-30
 TESLA Workshop, DESY, Hamburg, Germany, The Disposal of Spent Beams. Mar. 9-11
 Rencontre de LaThuile, Italy, Same-Sign Lepton Colliders. Mar. 1-7
- 1997 Muon Collider Conference, Limitations on Like-Sign Colliders, San Francisco, CA, Dec. 10-12
 e-e- Convenor; Progress on Electron Colliders, L.C. Zvinigorod, Russia, 9/29-10/3. e-e-97, Santa Cruz, CA. (1) A Progress Report on the Electron Collider. (2) The Trouble with "Inverse Neutrinoless Double Beta Decay." Sept. 22-24
 Scuola Subnucleare, Erice, Sicily, Overview of Future Colliders, Aug. 26-Sept. 4
 QLEN (Quark-Lepton Nuclear Ph.), e-e- \rightarrow W-W-, The Nuclear Connection. Osaka, Japan, May 20-23
 Rencontre de LaThuile, Italy, (1) Lepton Flavor violation in D.I.S. (2) Roundtable Discussion on L.C. Physics. March 3-9
 SMC Workshop, Santiago de Compostela, Spain, Trigger6 and Lepton-Flavor Violation, Jan. 8-11
- 1973 IIe Conference Internationale sur les Particules Elementaires, Aix-en-Provence, France: Tests of T-Invariance in the Electromagnetic Interaction.
 Electron-Photon Conference, Bonn, Germany: The Tagged-Photon Laboratory at Fermilab.
- 1972 XVIth International Conference on High-Energy Physics, Chicago, IL. Six contributed papers on photoproduction, new beams.
- 1970-71 Member of Organizing Committee, International Workshop on Electromagnetic Interactions, Batavia, Illinois, 1971
 Invited Lecturer at International Conferences on:
 Subnuclear Physics, Erice, Sicily, July 1971
 Electromagnetic Interactions, Trieste, Italy, June 1971
- 1969-70 Invited Lecturer at International Conferences on:
 Instrumentation in High Energy Physics, Dubna, USSR, July 1970
 High Energy Physics, Kiev, USSR, 1970
 Electromagnetic Interactions, Meribel, France, March 1970
- 2000-03 LCWS Fermilab. (1) Selectron and Neutralino Masses from e-e-. (2) Heavy Majorana Neutrinos. Oct. 22-27.
 ECFA/DESY at DESY, Hamburg, Germany. (1) Heavy Majorana in Neutrinos. (2) Higgs Bosons in Central Production. (3) SUSY Parameters in e-e- Collisions. (4) Detector: New Calorimetry. Sept. 22-25.
 ACFA Taipei, Taiwan, The Electron Linear Collider, Physics and Technology. Aug. 8-12.
 CLIC Physics, CERN, e-e- Configuration for CLIC. May 25-26
 ECFA/DESY, Padova, Italy, (1) Exploring the Neutralino Mass Matrix in e-e- (2) Chances of Heavy Majorana Neutrino Detection. May 5-9
 L.C. Lawrence Berkeley Lab, (1) Highlights of e-e-, e-gamma, gamma-gamma Physics. (2) Compare SUSY signals at the LHC vs. the L.C. March 29-31
 Rencontre LaThuile, Clear Signals for Heavy Neutrinos? Feb. 26-Mar. 4

Service to the Staff or Editorial Board of Scholarly Journals, or Other Publications not Including University Boards

1988-	Member of Editorial Board, <i>Particle World</i>
1983-88	Same activities continued Consultant to CERN Scientific Information Service
1981-83	Same activities continued
1976-78	Continued service as referee for journals and national funding agencies West Coast correspondent of International Journal of Musical Criticism
1970-Present	Review Manuscripts for various journals Physical Review Physical Review Letters Europhysics Letters Extracurricular activity as West Coast correspondent of International Journal of Music Criticism, OPER UND KONZERT (critical reviews of opera and concert performances)

Membership and Activities in Professional Associations

1984	Advisor to German Physical Society on Intermediate-Energy Nuclear Physics Advisor to European Physical Society on Bari International Conference on High Energy Physics, July 1985. Coordinator of new CERN proposal for muon physics.
1982	Member of Steering Committee, ELECTRA Collaboration at CERN, Geneva
1981	Organizer of Divisional Conference of American Physical Society, Particles & Fields 1981, on Santa Cruz campus
1977-78	Co-organizer of Proposal: Studies of High-Multiplicity Events in a Streamer Chamber at PEP, PEP-1 1, UCSC-SLAC Collaboration
1976	Scientific spokesman for EYEBALL, a proposal for a PEP Facility, PEP-7, Collaboration with UCSC, Stanford, University of Michigan, LBL, Berkeley

TEACHING

2001-2002

				Enrollment	Shared
Fall	Physics	221A	Int Particle Physics I	4	No
Spring	Physics	129	Nuclear Physics	11	No

2000-2001

Fall	Physics	195A	Senior Thesis Research	22	No
	Physics	221A	Int Particle Physics I	4	No
	Physics	299C	Thesis Research	1	No

Winter	Physics	195B	Senior Thesis Research	20	No
	Physics	199	Tutorial	1	No
Spring	Physics	299C	Thesis Research	1	No
	Physics	199	Tutorial	5	No
	Physics	299A	Thesis Research	1	No

1999-2000

Fall	Physics	195A	Senior Thesis Research	22	No
	Physics	299	Thesis Research	1	No
Winter	Physics	129	Nuclear Physics	5	No
	Physics	195A	Senior Thesis Research	1	No
Spring	Physics	195B	Senior Thesis Research	19	No
	Physics	199	Independent Study	1	No
	Physics	299	Thesis Research	1	No
	Porter	025	Musical Criticism	13	No
	Physics	199	Independent Study	4	No
	Physics	299	Thesis Research	1	No

1998-99

Sabbatical Leave

Fall	Physics	299	Thesis Research	1	No
Winter	Physics	299	Thesis Research	1	No
Spring	Physics	299	Thesis Research		INo
Summer	Physics	299	Thesis Research		No

1997-98

Fall	Physics	001	Conceptual Physics	31	No
	Physics	299	Thesis Research	1	No
	Porter	025	Musical Criticism	6	No
Winter	Physics	297	Independent Study	1	No
	Physics	299	Thesis Research	1	No
Spring	Physics	299	Thesis Research	1	No

1996-1997

Fall	Physics	195A	Senior Thesis Research	14	No
	Physics	297	Independent Study	1	No
	Physics	299	Thesis Research	1	No
Winter	Physics	195B	Senior Thesis Research	12	No
	Physics	199	Independent Study	1	No
	Physics	297	Independent Study	1	No
	Physics	299	Thesis Research	1	No
Spring	Physics	195C	Senior Thesis Research	9	No
	Physics	199	Independent Study	3	No
	Physics	297	Independent Study	1	No
	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	1	No

1995-96

Fall	Physics	195A	Senior Thesis Research	28	No
	Physics	221	Particle Physics	6	No
	Physics	297A	Independent Study	1	No

	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	1	No
Winter	Physics	195B	Senior Thesis Research	27	No
	Physics	199	Independent Study	1	No
	Physics	297	Independent Study	2	No
	Physics	299	Thesis Research	1	No
Spring	Porter	25	Musical Criticism	9	No
	Physics	195C	Senior Thesis Research	12	No
	Physics	199	Independent Study	1	No
	Physics	297	Independent Study	3	No

1994-95

Fall	Physics	133	Intermediate Lab	11	No
	Physics	297	Independent Study	1	No
	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	1	No
	Physics	301	Supervised Teaching	1	No
Winter	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	1	No
Spring	Physics	129	Nuclear/Particle Phys.	11	No
	Physics	299	Thesis Research	1	No

1993-94

Fall	Physics	221	Particle Physics	8	No
	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	1	No
Winter	Physics	I	Conceptual Physics	74	No
	Physics	297	Independent Study	2	No
	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	1	No
	Porter	25	Musical Criticism	5	No
Spring	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	1	No

1992-93

Fall	Physics	195	A Senior Thesis Research	31	No
	Physics	297	Independent Study	1	No
Winter	Physics	195B	Senior Thesis Research	28	No
	Physics	199	Independent Study	1	No
	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	1	No
Spring	Physics	199	Independent Study	2	No
	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	1	No

1991-92

Fall	Physics	139A	Quantum Mechanics	27	No
	Physics	195	Senior Thesis Research	21	No
	Physics	297	Independent Study	1	No
	Physics	298	Research Project	1	No
	Physics	301	Supervised Teaching	1	No
Winter	Physics	297	Independent Study	1	No
	Physics	298	Research Project	1	No
Spring	Physics	297	Independent Study	1	No

1990-91

On Sabbatical

Visiting Professor, University of Pavia, Italy (Feb. 1991).

1989-90

Fall	Physics	I	Conceptual Physics	48	No
	Physics	195	Senior Thesis Research	27	No
	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	2	No
	Physics	301	Teaching Experience	1	No
Winter	Physics	199	Tutorial		No
	Physics	299	Thesis Research		No

1988-89

Fall	Physics	215	Introduction to Non-Relativistic Quantum Mechanics	6	No
	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	2	No
Winter	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	3	No
Spring	Physics	I	Conceptual Physics	75	No
	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	2	No

1987-88

Fall	Physics	297	Independent Study	1	No
	Physics	299	Thesis Research	1	No
Winter	Physics	139B	Quantum Mechanics	11	No
	Physics	297	Independent Study	1	No
Spring	Physics	299	Thesis Research	1	No
	Physics	221	Particle Physics	8	No
	Physics	297	Independent Study	1	No
	Physics	299	Thesis Research	2	No

1986-87

Fall	Physics	199	Independent Study	1	No
	Physics	235	Experimental Methods in Particle Physics	3	No
Winter	Physics	297	Independent Study	2	No
	Physics	299	Thesis Research	1	No
	Physics	222	Weak Interactions	1	No
	Physics	297	Independent Study	1	No
	Physics	298	Research Project	2	No
	Physics	299	Thesis Research	1	No
	Physics	299	Thesis Research	1	No
Spring	Physics	297	Independent Study	1	No
	Physics	298	Research Project	2	No
	Physics	299	Thesis Research	1	No

1985-86

Fall	Physics	203	Topics in Contemporary Physics	2	No
	Physics	215	Introduction to Non-Relativistic Quantum Mechanics	5	No
Winter	Physics	298	Research Project	1	No
	Physics	299	Thesis Research	2	No
	Physics	195	Senior Thesis Research	23	No
	Physics	298	Research Project	2	No
	Physics	299	Thesis Research	2	No
Spring	Physics	199	Independent Study	1	No
	Physics	297	Independent Study	1	No
	Physics	299	Thesis Research	2	No

1984-85

Fall	Physics	215	Quantum Mechanics	6	No
	Physics	298	Theoretical & Experimental Research	1	No
Winter	Physics	195	Senior Thesis	27	No
Spring	Physics	133	Intermediate Laboratory	42	No

1983-84

On Leave All Year

Spring	Physics	297	Independent Study	1	No
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1982-83

Fall	Physics	105	Mechanics	47	No
	Physics	297	Independent Study	1	No
	Physics	298	Theoretical & Experimental Research	1	No
Winter	Physics	297	Independent Study	2	No
Spring	Physics	221	Int. Particle Physics	3	No
	Physics	297	Independent Study	2	No
	Physics	298	Theoretical and Experimental Research	1	No

1981-82

Fall	Physics	195	Senior Thesis		No
	Physics	199	Tutorial		No
Winter	Physics	195	Senior Thesis	18	No
Spring	Physics	112	Thermodynamics and Statistical Mechanics	15	No
	Physics	199	Tutorial	1	No
	Physics	297	Independent Study	2	No
	Physics	298	Theoretical & Experimental Research	1	No

1980-81

Fall	Physics	139A	Quantum Mechanics	18	No
	Physics	299	Thesis Research	6	No

Winter	Physics	139B	Quantum Mechanics	8	No
	Physics	299	Thesis Research	3	No
Spring	Physics	199	Tutorial	3	No
	Physics	299	Thesis Research	3	No

1979-80

Fall	Physics	221	Introduction to Particle Physics	4	No
	Physics	298	Theoretical & Experimental Research	3	No
Winter	Physics	299	Thesis Research	2	No
	Physics	112	Thermodynamics & Statistical Mechanics	1	No
Spring	Physics	297	Independent Study	4	No
	Physics	299	Thesis Research	7	No
			ORU Teaching Relief		

1978-79

Fall	Physics	I 14A	Mathematical Methods in Physics	34	No
	Coll. V	132	Introduction to the Theory & Practice of Musical Criticism	15	No
Winter	Physics	297	Independent Study	1	No
	Physics	298	Theoretical & Experimental Research	1	No
	Physics	299	Thesis Research	2	No
	Physics	114B	Mathematical Methods in Physics	6	No
	Physics	298	Theoretical & Experimental Research	2	No
	Physics	299	Thesis Research	2	No
Spring	Physics	199	Tutorial	1	No
	Physics	297	Independent Study	1	No
	Physics	298	Theoretical & Experimental Research	1	No
	Physics	299	Thesis Research	2	No

1977-78

Fall	Physics	202A	Quantum Mechanics	4	No
	Physics	297	Independent Study	1	No
	Physics	298	Theoretical & Experimental Research	1	No
Winter	Physics	299	Thesis Research	2	No
	Physics	203G	Sp. Topics in Elem. Particle Physics	3	No
	Physics	298	Theoretical & Experimental Research	1	No
Spring	Physics	299	Thesis Research	2	No
	Physics	3B	Basic Physics (Laboratory)	144	No
	Physics	298	Theoretical & Experimental Research	1	No
	Physics	299	Thesis Research	2	No
	Physics	301	Supervised Teaching Experience	3	No

1976-77

Fall	Physics	203F	Introduction to High Energy Physics	2	No
	Physics	299	Thesis Research	3	No
Winter	Physics	203F	Introduction to High Energy Physics	3	No
	Physics	299	Thesis Research	3	No
Spring	Physics	203F	Introduction to High Energy Physics	4	No
	Physics	298	Theoretical & Experimental Research	1	No
	Physics	299	Thesis Research	4	No

1975-76

Fall	Physics	203F	Introduction to High Energy Physics	2	No
	Physics	299	Thesis Research	3	No
Winter	Physics	139B	Quantum Mechanics	9	No
	Physics	299	Thesis Research	2	No
Spring	Physics	6C	Introduction to Physics 111 (Laboratory)	145	No
	Physics	299	Thesis Research	3	No
	Coll. V	160	Meso American Cultures - Science & Technology		No

1974-75

Leave of Absence - cf. teaching at other institutions
University of Munich (visiting Professor):
Lepton Nucleon Scattering
Symmetries and Conservation Laws

1973-74

Fall	Physics	203F	Topics in Contemporary Physics: High Energy Physics	9	No
	Physics	298	Theoretical & Experimental Research Project	3	No
	Physics	299	Thesis Research	2	No
Winter	Physics	298	Theoretical & Experimental Research Project	2	No
	Physics	299	Thesis Research	2	No
Spring	Physics	139C	Quantum Mechanics, Atomic & Nuclear Physics	4	No
	Physics	298	Theoretical & Experimental Research Project	1	No
	Physics	299	Thesis Research	3	No

1972-73

Fall	Physics	112	Thermodynamics & Statistical Mechanics	14	No
	Physics	203G	Special Topics in High Energy Physics	7	Yes
	Physics	297	Independent Study		

OTHER TEACHING:

Winter 2000 Two-unit class, Porter 25: Introduction to the Theory and Practice of
Fall 1997 Musical Criticism, every two years.
Winter 1996

1997 Technical University of Aachen, Germany
Six two-hour lectures for doctoral students on Linear Collider Physics to raise local awareness of Linear Collider program

1996 Technical University of Aachen, Germany
Six two-hour lectures for doctoral students on Linear Collider Physics to raise local awareness of Linear Collider program (July 3-14).

1995 Technical University of Aachen, Germany
Series of two-hour lectures for doctoral students on Linear Collider (attended by 10- 12 students and some faculty).

Ph.D. Thesis Adviser:

Juan Ciorciari, 2002. "Attempting to Relate Faulted Algorithms to Fake Results in Semiconductor Probes." (Masters Thesis)

Douglas Epperson, 2001. "Lepton Flavor Violation in Deep Inelastic Scattering at HERA and Zeus."

Mark Van Hook, Ph.D. 1997. "A Search for Lepton Flavor Violation Using the Zeus Detector at HERA."

Antony Farley, 1994. "Calorimetric Tracking of Electrons vs. Muons in the Spin-Muon Collaboration at CERN" (Master's Thesis).

John Drinkard, Ph.D. 1990. "A Study of the $K \rightarrow \pi \nu \bar{\nu}$ Final State in J/ψ Radiative Decays." Postdoc CERN.

Z. Bai, Ph.D. 1990. "Studies of the η Meson in Charmonium Decay." Postdoc SLAC.

Rong Sheng Xu. 1987. "A Study of $\rho(770)$ in Hadronic J/ψ Decay."

A. Breakstone, Ph.D. 1980. "Inclusive Photoproduction of η and η' mesons in the 50 to 130 GeV Energy Range." SLAC/Iowa State University.

V. Palladino, Ph.D. 1980. "Exclusive Photoproduction of Omega Mesons at Fermilab Energies." CERN-EP Division.

L. Moss, Ph.D. 1977. "Inclusive and Exclusive Features in Deep-Inelastic Leptonproduction." SLAC.

C. Del Papa, Ph.D. 1976. "Production of Charged Hadrons in Deeply Inelastic Muon-Neutron Scattering Experiment." University of Washington/CERN-EP Division.

B. Lieberman, Ph.D. 1975. "Vector Meson Production in a Muon-Proton Scattering Experiment." Intel Corporation.

A. Seiden, Ph.D. 1974. "A Study of the Final States Produced in Deeply Inelastic Muon-Proton Scattering." UCSC/Institute for Particle Physics.

Ph.D. Students Supervised:

Juan Ciorciari, 2001
Douglas Epperson, 2000
Anthony Farley, 1994
Mark Van Hook, 1996

Master's Oral Committee:

Douglas Epperson, 1997
M Diaz, 1990
Mark Van Hook, 1990

Master's Advisor:

Arik Florimonte 1996

Undergraduate Thesis Adviser:

27 students in 1989-90

Undergrad Thesis Technical Adviser:

D. Freitas.	2002
D. Henderson	2001
J. Safier	2000
M. McCann	1998
J. Yockey	1996
D. Neuman	1996
J.Jensen	1995
M. Crawford	1993
R. Wynd	1993
C. Mew	1992
J.Sanchez	1992
A. Farley	1990
M. Van Hook	1990
C. Bryne	1986
J. Drinkard	1985
Y Zhu	1982
M. Finnegan	1981
P. Longenecker	1981

Senior Thesis Advisor: placed four of our students at SLAC to fill almost all advertised beam operator positions:

John MacMahon
Tracy March
Zev Kvitky
Jerry Yocky