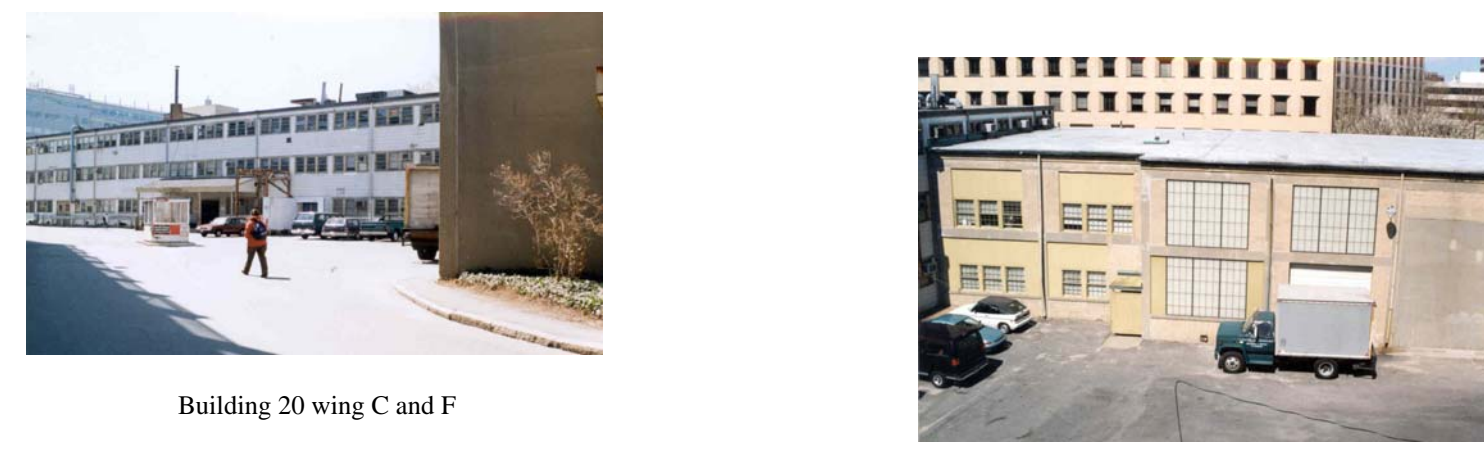


COSMOLOGY AND GRAVITATIONAL RESEARCH GROUP

BETWEEN 1965 -- 2007



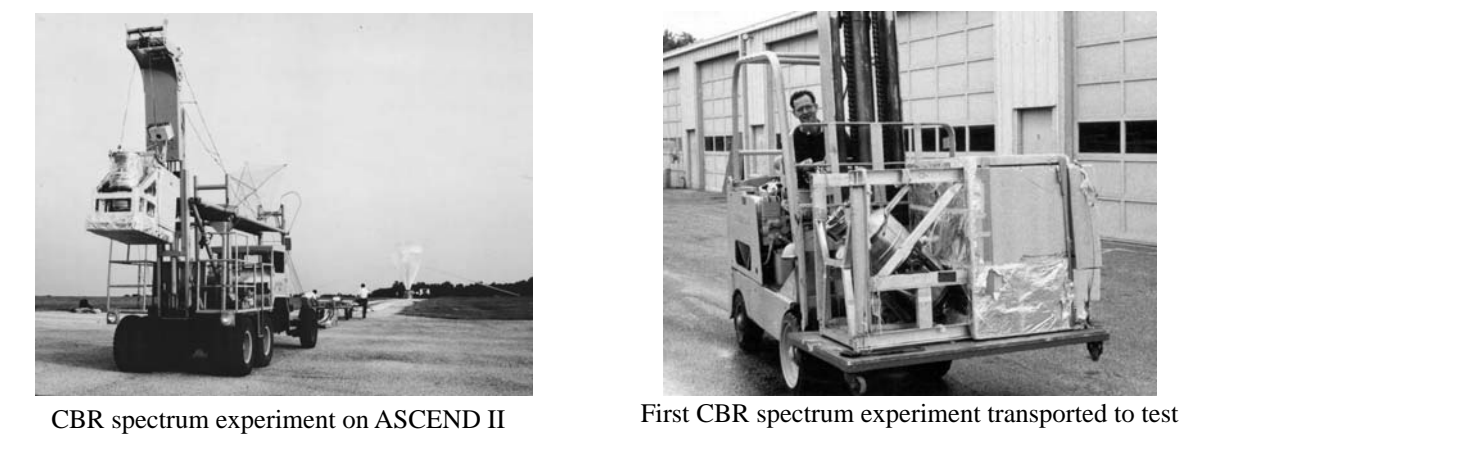
Building 20 wing C and F



Entrance to building 20 wing F

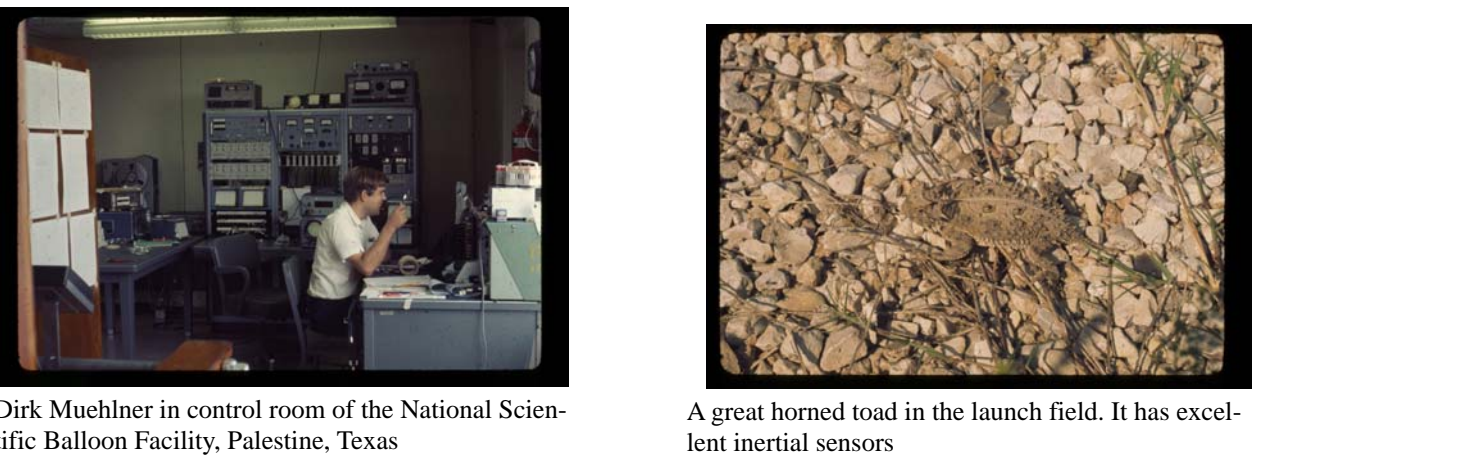


Machine shop and electronics shop of the Cosmology and Gravitational Research group



CBR spectrum experiment on ASCEND II

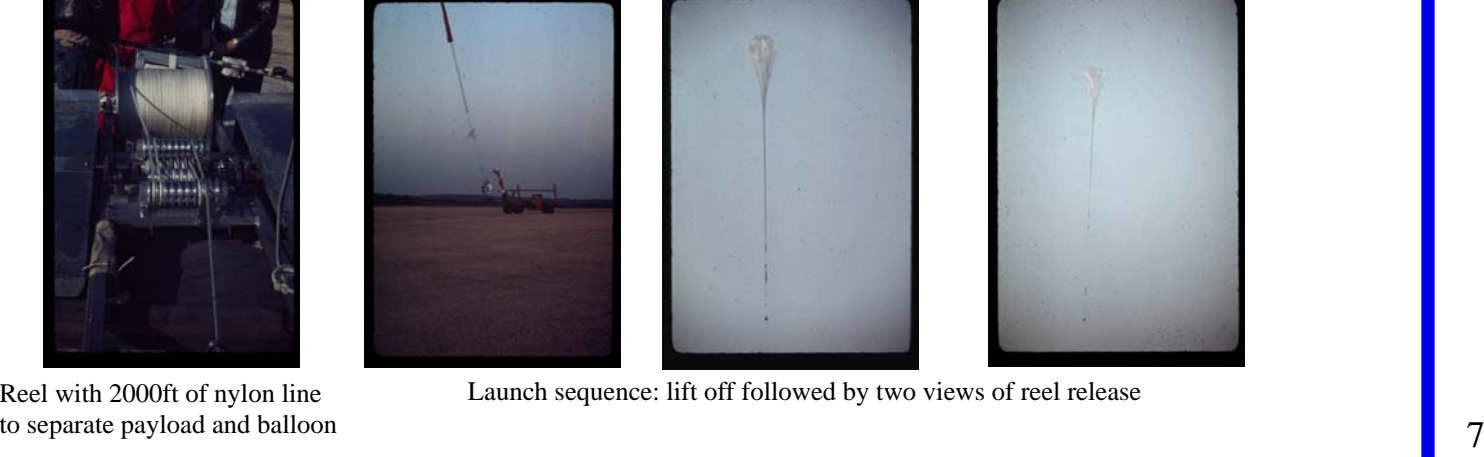
First CBR spectrum experiment transported to test



Dirk Muehlner in control room of the National Scientific Balloon Facility, Palestine, Texas



Dirk Muehlner and the CBR anisotropy experiment



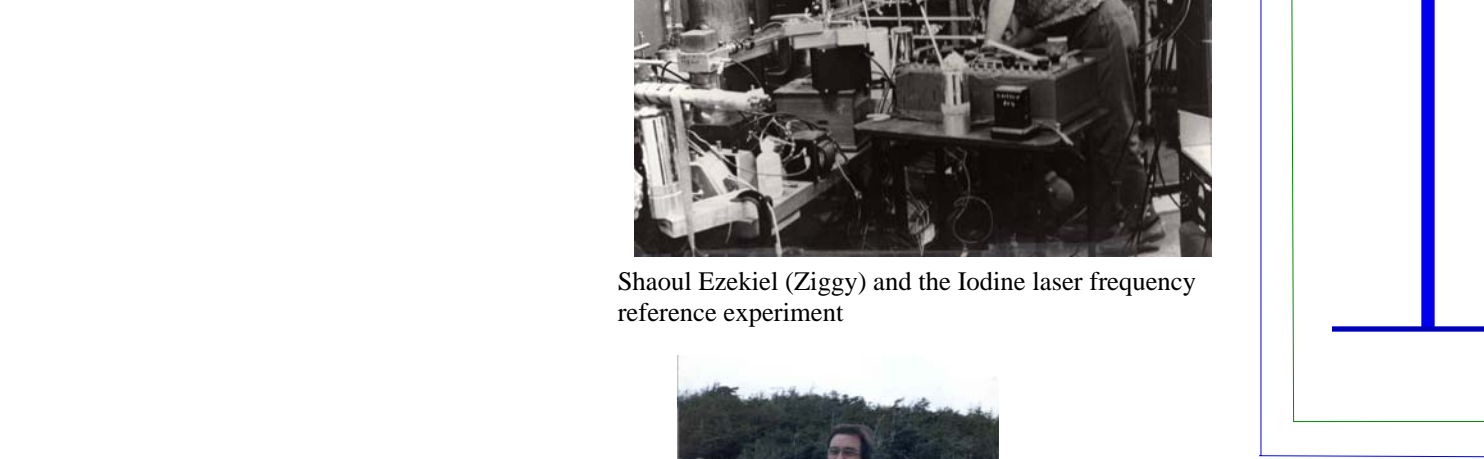
Launch sequence: lift off followed by two views of reel release



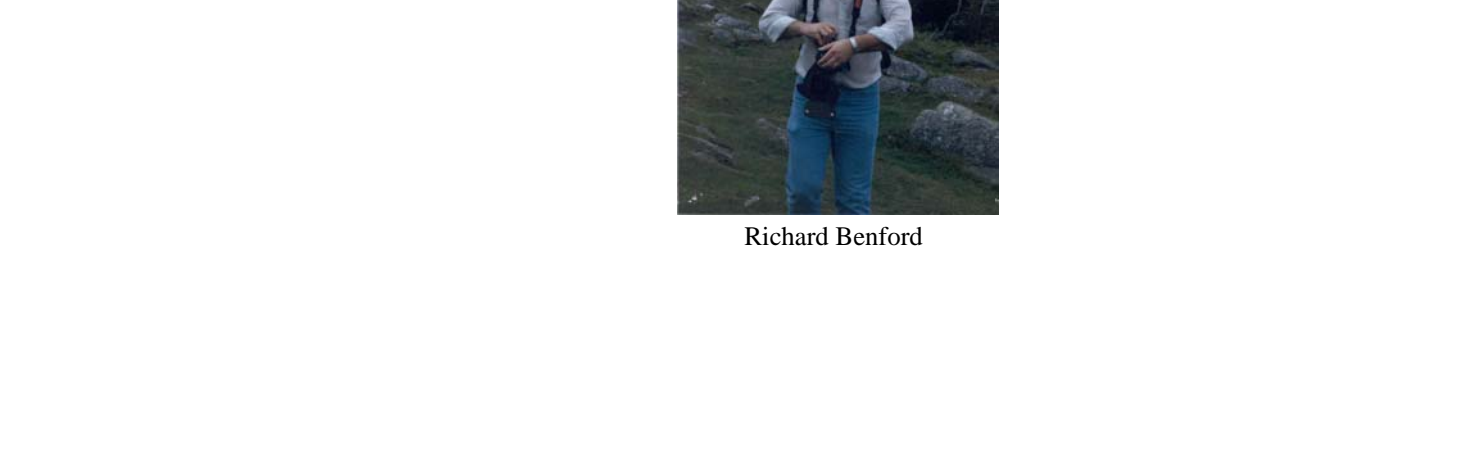
Termination with package on parachute



National Scientific Balloon Facility recovery crew



Shaoh Eckel (Ziggy) and the iodine laser frequency reference experiment



Richard Beisford

Editorial Note
The timeline of the Cosmology and Gravitational Research Group was assembled in September 2007. Although the student theses and the times associated with laboratory members are consistent with MIT records, there could well be errors. Furthermore, the pictures are not complete. I would very much appreciate receiving better pictures or missing pictures. The poster can be found at http://nroglg3.mit.edu/~weiss/group_poster/group_poster.pdf. Please send new information to weiss@ligo.mit.edu

1965	<p>Edwin Jacobs BS 1965 Design and Construction of a Tilt Meter</p> <p>Richard Vramek BS 1965 An Interferometric Linear Strain Seismometer</p> <p>Thomas McDonough BS 1966 Analysis of a Theory of Jupiter's Decametric Radio Emissions</p> <p>Thomas Seddon BS 1966 An Optical Gas Cell as an Interferometric Path Length Modulator</p> <p>Jean Walker Jr BS 1967 Change in Magnetization on Ferromagnetic Resonance Absorption: Preliminary Work on the Einstein de Haas Effect</p> <p>Michael Wandzilak BS 1967 Studies in Electrical Suspensions</p> <p>Philip Chapman S.C.D. Astro 1967 Theoretical Foundations of Gravitational Experiments in Space Co-supervised: Walter Wiggles, Felix Villars</p> <p>Eric Sweetman BS 1968 Observation of Measurable Helium in an Atomic Beam</p> <p>Peter Van Sickle BS 1968 Optical Mixing in Quartz: A Preliminary Study</p> <p>Michael Blitch MS 1968 The Feasibility of a Gravitational Clock to Test the General Theory of Relativity</p> <p>Shaoh Eckel PhD Astro/Astro 1968 A Molecular Beam Primary Reference for Long Term Laser Frequency Stabilization</p> <p>Richard Johnson BS 1968 Investigation of the Einstein de Haas Effect Using Ferromagnetic Resonance Absorption</p> <p>Terrance Jach BS 1969 Laser-Saturated Iodine Absorption at 5145Å</p>	<p>Edward Hillman BS 1979 An Experimental Evaluation of a Free-Flowing Superconducting Solenoid as a Low Level Accelerometer</p> <p>Hisashi Harada SB 1978 Photon Statistics of Thermal Light in an Intensity Interferometer</p> <p>Gary Mason BS 1978 A Study of Solar Variability</p> <p>Margaret Freerking PhD 1977 Heterodyne Detection of Infrared Molecular Lines Supervised by Dirk Muehlner</p> <p>Jonathan Lettvin BS 1976 Quick and Dirty Parabolic Reflectors for the Mirror</p> <p>Mark Halpern and Zachary Levine BS 1976 Design and Construction of Composite Bolometers</p> <p>Michael Feder BS 1976 Gravitational Radiation from the Sun</p> <p>John Anderson and Andrew Szymkowiak BS 1976 Far Infrared Diffraction Anomalous Cylinders Supervised by Dirk Muehlner</p> <p>Frederick Yung-Fung Wu PhD Astro/Astro 1976 Measurement of the Spectrum of Resonance Fluorescence Induced by a Monochromatic Fields Supervised by Shaoh Eckel</p> <p>D. Kingston Owen PhD 1976 A Sky Survey at Millimeter and Submillimeter Wavelengths</p> <p>George Doerre BS 1975 A Fringe-Tracking Michelson Interferometer</p>
1970	<p>David Trivett BS 1974 Studies of an Electrostatic Suspension</p> <p>Fred Ore BS 1974 The Gravitational Lennard-Wiessner Potentials and Applications</p> <p>David Little BS 1974 A Demonstration of Classical Physics Relevant to an Understanding of Nuclear Magnetic Resonance</p> <p>Ronald Waldron BS 1973 The Use of Cross-Correlation of Seismic Data to Detect Gravitational Radiation from Pulsars</p> <p>Michael Gordon BS 1973 Detection of Rapid Fluctuations in the Earth's Magnetic Field</p> <p>Daniel Morris BS 1973 Transmission of Far Infrared Radiation by Indium Antimonide Crystal</p> <p>Nicholas Pierce MS 1973 Parametric Up-Conversion of Far-Infrared Radiation in Cadmium Sulfide</p> <p>Frank Wentz BS 1971 The Critical Properties of a Far-Infrared Radiometer</p> <p>Miles Wagner BS 1971 Rotation and Translation Sensitivity of a Spherical Mirror Cavity</p> <p>Noah Bass and Gordon Legge BS 1971 A Far Infrared Interferometer and its Use in Solar Absorption and Sky Emission Studies</p> <p>D. Kingston Owens BS and MS 1971 A Sensitive Inter-Cavity Polarization Interferometer</p> <p>Andrew Mazzella BS 1970 An Investigation of the Properties of a Spherical Mirror Fabry-Perot Interferometer</p> <p>Alan Huber BS 1970 The Rowland Disk</p> <p>Chester Blum MS 1970 Non-Linear Thomson Scattering</p> <p>Patrick Wallen BS 1970 Photon Counting in the Helium-Neon Laser at Threshold</p> <p>Dirk Muehlner PhD 1970 A Measurement of the Background Radiation in the Far Infrared</p> <p>Brittan Girard BS 1970 Normal Modes of Non-Radial Pulsations of a General Relativistic Stellar Model</p>	<p>Edward (Ned) Wright BS 1980 Time Dependence of Gravitational Lens Phenomena</p> <p>David Shoemaker MS 1980 A Fourier Transform Spectrometer for Millimeter and Submillimeter Wavelengths</p> <p>Patricia Downey PhD 1980 The Low Temperature Conductivity of Ion Implanted Silicon and its Application in a Cryogenic Far-IR Monolithic Bolometer</p> <p>Bruce Allen BS 1980 An Intensity Interferometer for the Cosmic Background Radiation</p> <p>Bruce Stanley BS 1980 Topics on the Harmonic Oscillator</p> <p>Jeffrey Livas BS 1981 An Amplitude Noise Reduction System for a Laser</p> <p>Marc Fischer BS 1981 Sensitivity Dependence of Photon Noise Power</p> <p>Christopher Lozinski BS 1982 An Active Seismic Isolation System</p> <p>Lyman Detsch MS 1983 Design and Construction of Interference Filters for the Far Infrared</p> <p>Mark Halpern PhD 1983 Measurement of the Anisotropy of the Cosmic Background Radiation at Millimeter Wavelengths</p> <p>Andrew Jeffries PhD 1983 Angular and Spatial Distributions of the Cosmic Background Radiation</p> <p>James Horden Jr BS 1984 The Transfer Functions of Fabry-Perot Interferometers and Their Application to One Proposed Gravitational Wave Detection Scheme</p> <p>Martin Offutt BS 1985 Vibrational Quality of Sapphire Rods in Modes of Flexure Supervised by Peter Saulson</p> <p>Seth Finebstein BS 1985 An Investigation into the Fluctuation-Dissipation Theorem</p> <p>Gregory Vacker BS 1985 High Frequency Vacuum Pressure Fluctuations</p> <p>Daniel Zachary BS 1985 Force Displacement Physics for a Finned Plate Capacitor System</p> <p>Robert Kusner BS 1986 The Temperature and Electric Field Dependence of Variable Range Hopping in Ion Implanted Silicon Supervised by Stephan Meyer</p> <p>Daniel Dewey PhD 1986 A Search for Astronomical Gravitational Radiation with an Interferometric Broad Band Antenna</p> <p>Paul Kwiat BS 1987 Characterization of Brewster Angle Electro-optic modulators for LIGO</p> <p>John Evans BS 1987 Output Intensity Fluctuations of a Continuous-Wave Nd:YAG Laser Supervisor Andrew Jeffries</p> <p>Jeffrey Livas PhD 1987 The Behavior of a LIGO Proportional Cylindrical Mirror Supervised by David Shoemaker</p> <p>Yasser Abdel Rehem BS 1991 Small Angle Scattering from Rough Surfaces</p> <p>Meng Yong Goh PhD 1991 Radiometric Stability of the Far Infrared Absolute Spectrophotometer (FRAS) Supervised by Stephan Meyer</p> <p>Michelle Eiguber Stephens PhD 1991 Issues in the Detection of Gravitational Radiation</p> <p>Nelson Christensen Jr PhD 1990 On Measuring the Stochastic Gravitational Radiation Background with Laser Interferometric Antennas</p> <p>Lyman Page PhD 1989 A Measurement of the Cosmic Microwave Background Radiation Anisotropy Supervised by Stephan Meyer</p> <p>The Hong Joo PhD EE 1989 Detection Statistics for Multichannel Data Co-supervised by Alan Oppenheim</p> <p>John Mraz Jr BS 1989 Coupling of Single-Mode Optical Fibers at 1.6μm Microns Using Graded-Index Lenses Supervised by Andrew Jeffries</p>

1980	<p>Edward (Ned) Wright</p> <p>Paul Linsay</p> <p>Paul Linsay and electronic chaos</p> <p>Margaret Freerking</p> <p>Bruce Allen</p> <p>Patricia Downey and the Silicon Monolithic Bolometer</p> <p>Peter Kramer and the 1.5 meter prototype interferometer</p> <p>Mark Halpern</p> <p>Stephan Meyer and Andrew Jeffries on Mauna Kea</p> <p>Edward Cheng and Stephan Meyer</p> <p>Stephan Meyer, Jeffrey Livas, Gregory Tucker, Elizabeth Buech, Peter Saulson</p> <p>David Shoemaker</p> <p>Michael Burka</p> <p>Lyman Page</p> <p>Andrew Cumming</p>	<p>Clifford Avey BS 1980 Time Dependence of Gravitational Lens Phenomena</p> <p>David Shoemaker MS 1980 A Fourier Transform Spectrometer for Millimeter and Submillimeter Wavelengths</p> <p>Patricia Downey PhD 1980 The Low Temperature Conductivity of Ion Implanted Silicon and its Application in a Cryogenic Far-IR Monolithic Bolometer</p> <p>Bruce Allen BS 1980 An Intensity Interferometer for the Cosmic Background Radiation</p> <p>Bruce Stanley BS 1980 Topics on the Harmonic Oscillator</p> <p>Jeffrey Livas BS 1981 An Amplitude Noise Reduction System for a Laser</p> <p>Marc Fischer BS 1981 Sensitivity Dependence of Photon Noise Power</p> <p>Christopher Lozinski BS 1982 An Active Seismic Isolation System</p> <p>Lyman Detsch MS 1983 Design and Construction of Interference Filters for the Far Infrared</p> <p>Mark Halpern PhD 1983 Measurement of the Anisotropy of the Cosmic Background Radiation at Millimeter Wavelengths</p> <p>Andrew Jeffries PhD 1983 Angular and Spatial Distributions of the Cosmic Background Radiation</p> <p>James Horden Jr BS 1984 The Transfer Functions of Fabry-Perot Interferometers and Their Application to One Proposed Gravitational Wave Detection Scheme</p> <p>Martin Offutt BS 1985 Vibrational Quality of Sapphire Rods in Modes of Flexure Supervised by Peter Saulson</p> <p>Seth Finebstein BS 1985 An Investigation into the Fluctuation-Dissipation Theorem</p> <p>Gregory Vacker BS 1985 High Frequency Vacuum Pressure Fluctuations</p> <p>Daniel Zachary BS 1985 Force Displacement Physics for a Finned Plate Capacitor System</p> <p>Robert Kusner BS 1986 The Temperature and Electric Field Dependence of Variable Range Hopping in Ion Implanted Silicon Supervised by Stephan Meyer</p> <p>Daniel Dewey PhD 1986 A Search for Astronomical Gravitational Radiation with an Interferometric Broad Band Antenna</p> <p>Paul Kwiat BS 1987 Characterization of Brewster Angle Electro-optic modulators for LIGO</p> <p>John Evans BS 1987 Output Intensity Fluctuations of a Continuous-Wave Nd:YAG Laser Supervisor Andrew Jeffries</p> <p>Jeffrey Livas PhD 1987 The Behavior of a LIGO Proportional Cylindrical Mirror Supervised by David Shoemaker</p> <p>Yasser Abdel Rehem BS 1991 Small Angle Scattering from Rough Surfaces</p> <p>Meng Yong Goh PhD 1991 Radiometric Stability of the Far Infrared Absolute Spectrophotometer (FRAS) Supervised by Stephan Meyer</p> <p>Michelle Eiguber Stephens PhD 1991 Issues in the Detection of Gravitational Radiation</p> <p>Nelson Christensen Jr PhD 1990 On Measuring the Stochastic Gravitational Radiation Background with Laser Interferometric Antennas</p> <p>Lyman Page PhD 1989 A Measurement of the Cosmic Microwave Background Radiation Anisotropy Supervised by Stephan Meyer</p> <p>The Hong Joo PhD EE 1989 Detection Statistics for Multichannel Data Co-supervised by Alan Oppenheim</p> <p>John Mraz Jr BS 1989 Coupling of Single-Mode Optical Fibers at 1.6μm Microns Using Graded-Index Lenses Supervised by Andrew Jeffries</p>
------	--	--

1990	<p>Edward (Ned) Wright</p> <p>Paul Linsay</p> <p>Margaret Freerking</p> <p>Bruce Allen</p> <p>Patricia Downey and the Silicon Monolithic Bolometer</p> <p>Peter Kramer and the 1.5 meter prototype interferometer</p> <p>Mark Halpern</p> <p>Stephan Meyer and Andrew Jeffries on Mauna Kea</p> <p>Edward Cheng and Stephan Meyer</p> <p>Stephan Meyer, Jeffrey Livas, Gregory Tucker, Elizabeth Buech, Peter Saulson</p> <p>David Shoemaker</p> <p>Michael Burka</p> <p>Lyman Page</p> <p>Andrew Cumming</p>	<p>Brian Lantz PhD 1999 Quantum Limited Optical Phase Detection in a High Power Suspended Interferometer</p> <p>Peter Costanzo MS 1999 LIGO Photodiode Characterization and Measurement of the Prealigned Laser Intensity Noise</p> <p>Brett Bochner PhD 1998 Modeling the Performance of Interferometric Gravitational Wave Detectors with Realistically Imperfect Optics</p> <p>Sarah Veitch BS 1998 VLF Magnetic Field Correlation Measurements Between LIGO Sites</p> <p>Partha Saha PhD 1997 Noise Analysis of a Suspended High Power Michelson Interferometer</p> <p>Nergis Mavalvala PhD 1997 Alignment Issues in Laser Interferometric Gravitational Wave Detectors</p> <p>Cathy Ann Inman PhD 1996 A Measurement of the Cosmic Background Radiation (CMBR) Anisotropy at the Half Degree Angular Scale Supervised by Stephan Meyer</p> <p>Mark Halpern PhD 1983 Measurement of the Anisotropy of the Cosmic Background Radiation at Millimeter Wavelengths</p> <p>Andrew Jeffries PhD 1983 Angular and Spatial Distributions of the Cosmic Background Radiation</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>Jason Puchalla PhD 1995 Measuring Cosmic Microwave Background Radiation Anisotropy on Medium Angular Scales Supervised by Stephan Meyer</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised by Stephan Meyer</p> <p>Joseph Kovalik PhD 1994 A Study of Thermal Noise</p> <p>Joseph Gilme PhD 1995 Studies of Laser Interferometer Design and a Vibration Isolation System for Interferometric Gravitational Wave Detectors</p> <p>William Barnes PhD 1994 A Model of Galactic Dust and Gas from FRAS Supervised</p>
------	---	--