The papers presented at this sectional meeting of the APS provide an interesting snapshot of the research being done in 1949 in both the Case and Western Reserve physics departments.

Meeting of the Ohio Section of the American Physical Society
5 November 1949

1. Apparatus for Acoustical Measurements with Pulse-modulated Ultra-sonic Waves
   Yeager, Chessin, Bugosh, Hovorka; CIT
2. A High-frequency Barium Titanate Hydrophone
   Bugosh, Yeager, Hovorka - CIT
3. A High-frequency Electro-acoustic Effect and Its Utilization in the Construction of Hydrophones
   Bugosh, Yeager, Hovorka - CIT
4. The Condensation of Evaporated Metals on Surfaces
   Olsen, Crittenden, Hoffman - CIT
5. Use of WWV Signals to time Pendulums
   McCarthy - WRU
6. A Novel Magnetostriction Effect
   Janofsky, Melamed, Beth - WRU
7. Report of Results of the science Abstracting Survey of APS-AIP
   Hutchisson – CIT
8. An Adjustable Mounting for Large Mirrors
   Haynie, OSU
9. Monochromatic Electron Groups in Long-life Manganese
   Emmerick, Ballweg, Kurbatov – OSU
10. Radiations Emitted y Long-life Species of Nickel
    Thomas, Kurbatov – OSU

Invited Paper: The Case Betatron and Plans for Its Use
   Gregg – CIT

Modern Physics in America
A Michelson-Morley Centennial Symposium
30-31 October 1987

In celebration of the centennial of the Michelson-Morley ether drift experiment, the university, along with twelve other Cleveland educational and cultural institutions, organized "Light, Space, and Time – A Cleveland Festival 1987". The event was chaired by Dorothy Humel Hovorka, assisted by physics Professor Philip Taylor The final event of this seven-month long celebration was a two-day symposium entitled "Modern Physics in America", organized by the Physics Department under the direction of co-chairmen, Professors William Fickinger and Kenneth Kowalski.

The unique audience of the symposium included about six hundred physics graduate students who were bussed in from major universities within a 200-mile radius of Cleveland, from Toronto to East Lansing, from Pittsburgh to Cincinnati. Among the speakers, chairpersons, and guests-of-honor were nine Nobel Laureates (a few of whom would be so honored after 1987). All the expenses for the students and other guests were provided for by generous gifts from the 1525 Foundation (a special friend of the University), by the General Electric Foundation, and by NASA. The proceedings, including text of all the talks, have appeared in the AIP Conference Proceedings ***169****, editors Fickinger and Kowalski.*

Here is a list of the lectures:

1. High Energy Colliders and Exploration of Small Distances: What are the Limits?
   Wolfgang K. H. Panofsky
2. Reminiscences of My Father
   Dorothy Michelson Livingston
3. Atoms, Molecules and Light
   Arthur L. Schawlow
4. The Life of the Stars
   Hans A. Bethe
5. Neutrinos from the Atmosphere and Beyond
   Frederick Reines
6. The Search for gravitational Waves: Probing the Dynamics of Space-time
   Peter F. Michelson
7. Chaos and Turbulence: An Experimental View
   Albert J. Libchaber
8. A Physicist's View of Biology
   Ivar Giaever
9. Strange Insulators, Strange Semiconductors, Strange Metals:
   High T_c as a Case History in Condensed Matter Physics
   Philip W. Anderson
10. Grand Challenges to Computational Science
    Kenneth G. Wilson
11. The Supercollider: Assault on the Summit
    Leon Lederman
12. Superstrings
    Murray Gell-Mann
13. SN1987a: The Supernova of a Lifetime
    Robert Kirshner
14. The Discovery and Physics of Superconductivity above 100K
    Ching Wu Paul Chu

The Michelson Lectures and Awards

The Michelson Lecture series, in its various incarnations, has brought eminent scientists and engineers to the CWRU campus for the past four decades. The series began in 1963 when the Trustees of the Case Institute of Technology established the ***Michelson Award****.*

1963	J. H. van Vleck	"Father of Modern Magnetism"
1964	H. K. Hartline	"Pioneering Biophysicist"
1965	Luis W. Alvarez	"Leading Nuclear Physicist"
1966	Edwin H. Land	"Lightness, Brightness and Reality"
1967	Martin Schwarzschild	"Structure and Evolution of the Stars"

The series was renamed the ***Michelson-Morley Award*** *after the Federation of Case and Western Reserve, and continued almost every year until the 1990's.*

1968	John Bardeen
1970	Charles H. Townes
1976	John D. Roberts
1977	Gene M. Amdahl
1978	Harry G. Drickamer
1979	Hans Wolfgang Liepmann
1980	Frank Albert Cotton
1981	Francis H. C. Crick
1982	Michael Ellis Fisher
1983	Subrahmanyan Chandrasekhar
1984	Paul C. Lauterbur
1985	Paul A. Fleury
1986	Richard N. Zare
1987	George A. Olah
1988	John J. Hopfield
1989	Herman F. Mark
1990	Frederick Reines
1991	John Cahn
1992	Watt W. Webb

The ***Michelson Lectures*** *were established by the Physics Department in 1995.*

1995	Joseph H. Taylor	"Binary Pulsars and Relativistic Gravity"
1995	Frank Wilczek	"Black Holes and Quantum Mechanics: Trouble on the Horizon?"
1996	Sheldon L. Glashow	"The Universe and the Particle: All Features Great and Small"
1997	Robert C. Richardson	"The Superfluidity of Helium-3"
1999	Michael E. Fisher	"Phase Transitions and Our Understanding of the Physical World"
2000	Gerhardus 't Hooft	"A Confrontation with Infinity"
2003	Stephen Chu	"What can we learn from looking at biological processes, one molecule at a time?"

In 2002, the ***Michelson-Morley Award*** *was re-established. The award was made possible through an endowment from the 1987 Michelson Morley Centennial Celebration Committee, Dorothy Humel Hovorka, chairperson.*

2002	Frank Wilczek	"The World's Numerical Recipe"
2003	Stephen Hawking	"Brane New World"

The Michelson Post-doctoral Prize Lectureship

This prize, established in 1997 by Profs. Lawrence Krauss and Glenn Starkman, is awarded annually to a junior scholar active in any field of physics. Each Fall, nominations are solicited from advisors and mentors at institutions throughout the U.S. Each Spring, a young scholar is chosen by the MPPL Committee based upon merit and recommendation, and is invited to spend one week in residence at CWRU, presenting one Colloquium and three Seminars.

The participants have been the following:

April 1998 Thomas Walther Texas A&M University
Applications of Laser Spectroscopy

February 1999 Christopher Fuchs California Institute of Technology
Quantum Information Theory

April 1999 Joe Mohr University of Chicago
Cosmic X-rays, Galaxy Clusters, and Cosmology

May 2000 Keith Schwab NSA, University of Maryland
Macro- and Mesoscopic Quantum Effects

April 2001 Jonathan Feng Massachusetts Institute of Technology
Supersymmetry, Dark Matter, and the Cosmological Constant

April 2002 Re'em Sari California Institute of Technology
Gamma Ray Bursts, Extrasolar Planets

April 2003 Brian DeMarco National Institute of Standards and Technology
Quantum Behavior of an Atomic Fermi Gas

April 2004 Karsten Heeger Lawrence Berkeley Laboratory
Recent Discoveries in Neutrino Physics

May 2005 Yaroslav Tserkovnyak Harvard University
Collective Spin Dynamics in Magnetic Nanostructures