



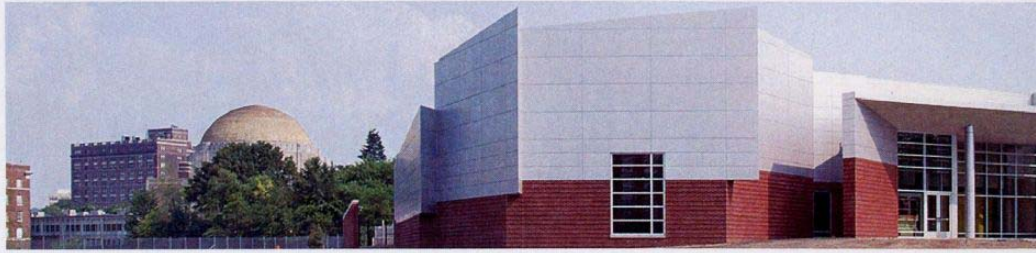
CASE

CASE WESTERN RESERVE UNIVERSITY

*Building Dedication and Preview*

Cleveland Center for  
Structural Biology  
Wright Fuel Cell Group

Tuesday, October 25, 2005  
1819 E. 101st Street  
Cleveland, Ohio 44106



## THE CLEVELAND CENTER FOR STRUCTURAL BIOLOGY

### *The Future of Biomedicine in Cleveland*

The CCSB is a joint research center of the School of Medicine at Case, the Cleveland Clinic Foundation, and Cleveland State University that focuses on the study of structural biology and biopolymers, such as starches, proteins and DNA.

The Center employs the latest in imaging equipment to determine the structure and function of proteins on the molecular level focusing on “individualized” genomic medicine.

This cutting-edge research is based on the proteins the genome manufactures, and the disease susceptibility created by the interactions between these biological factors and the external environment and promises to provide insights into and lead to the development of medication for diseases such as Alzheimer’s, cancer, and heart disease.

In 2001, the Cleveland Foundation gave \$3 million to support the expansion of Cleveland Center for Structural Biology (CCSB), and since its founding, the CCSB has garnered more than \$20 million in new research funds.

## THE WRIGHT FUEL CELL GROUP

### *Energy for Ohio’s Future*

The Wright Fuel Cell Group is an organization of partnerships between academic institutions, businesses, and nonprofits for fuel cell research and investment.

Created and funded by the Third Frontier Project -- \$103 million Fuel Cell Initiative - the group works to accelerate commercialization of fuel cell technology by creating a link between research and industry.

The Group which is comprised of Case Western Reserve University, and a team including Ohio State University, the University of Toledo, Cleveland State University and Stark State College of Technology offers test facilities for new technologies and products.

As a result, the Wright Fuel Cell Group is uniquely designed to position Ohio as a national leader in an estimated \$2.5 billion fuel cell industry and to spur economic growth and job creation in Ohio.

## PROGRAM

WELCOME .....Ralph I. Horwitz, M.D.  
Dean, School of Medicine  
Vice President, Medical Affairs  
Case Western Reserve University

OPENING REMARKS .....Edward M. Hundert, M.D.  
President  
Case Western Reserve University

FORMAL REMARKS .....Frank Samuel  
Science and Technology Advisor  
Office of Governor Bob Taft

CLOSING REMARKS ..... Robert F. Savinell, Ph.D.  
Dean, School of Engineering  
Case Western Reserve University

INVITED ..... The Honorable Stephanie Tubbs Jones  
Member, U.S. House of Representatives  
Eleventh Congressional District of Ohio

## FUNDERS

### THE WRIGHT FUEL CELL GROUP

Ohio Department of Development

Wright Center of Innovation, funded through the Third Frontier Project

### THE CLEVELAND CENTER FOR STRUCTURAL BIOLOGY

Case Western Reserve University

Case Western Reserve University  
Department of Biochemistry

National Institutes of Health

Ohio Biennial Capital Bill, FY2005-2006

Ohio Board of Regents Action Fund

Ohio Board of Regents Hayes Fund

The Cleveland Clinic Foundation

The Cleveland Foundation

The Fred A. Lennon Charitable Trust

Health Resources and Services  
Administration of U.S. Department of  
Health and Human Services

The Future...

## ABOUT THE BUILDING

- The building is 18,775 gross square feet.
- The total cost of the project was \$8.1 million.
- The design team was TSA of Massachusetts in partnership with Kling Architects and Engineers.
- The builder was Gilbane Building Company.
- The first research building on Case's new 14-acre West Quad.
- A unique collaboration between the Medical School and the Engineering School.
- Designed to house the largest Nuclear Magnetic Resonance (900 MHz NMR) with unique imaging capabilities.
- Liquid hydrogen and nitrogen tank farm for support of the research activities within the building.
- Open, flexible lab for the Wright Center to allow for future changes in fuel cell technology.
- Two sophisticated fuel cell test beds for testing new technology.
- Five walk-in exhaust enclosures for set-up of experiments in controlled environments.
- Large classroom for teaching.
- Large areas of glass to allow visibility and light within the building.
- Fresh design reflecting the dynamic work that will be going on inside.

...the West Quad



## The Future...the West Quad

### *A vibrant environment for collaborative research*

On the former site of Mt. Sinai Medical Center, Case Western Reserve University, in collaboration with a number of regional partners, plans to develop a mixed-use campus and research park with up to 2-million square feet of laboratory and office space dedicated to transformative research.

The 14-acre campus, commonly referred to as the West Quad, will be an integrated multidisciplinary environment for collaborative research with academic and commercial, medical and life science partners. This will include physicians and scientists from all of the Case affiliated hospitals.

The overarching objective of the West Quad development will be to unlock the potential of “individualized” medicine based on – and tailored to – an individual’s genome, the proteins the genome makes, and the disease susceptibility created by the interactions between these biological factors and the external environment. This integration of biologic and clinical data will create new strategies for the cure and prevention of disease, fundamentally altering the practice of medicine.

The School of Medicine also will create the new Institute for Patient and Population Health Sciences to minimize the health care disparities in the application of these new discoveries and to enhance the health of the public at large.

The West Quad represents an unprecedented collaboration of regional and local institutions and businesses including the Cleveland Clinic Foundation, University Hospitals of Cleveland, the Louis Stokes Cleveland Department of Veterans Affairs Medical Center, and MetroHealth Medical Center.

The West Quad campus will have a total of 1.5 to 2 million gross square feet of research facilities to be used by the University and private industry. The first phase will consist of 500,000 square feet, expected to be completed by early 2009.