

Father Cooke: Educator of the Year



CANISIUS PRESIDENT Rev. Vincent M. Cooke, S.J., is the newest inductee to the Junior Achievement Business Leadership Hall of Fame. Honored as the 2004 Educator of the Year, Father Cooke was recognized for his leadership, vision and innovation, which “have contributed to the progress and prosperity of Western New York.”

Father Cooke was inducted into the Junior Achievement Leadership Hall of Fame during the organization’s annual Business Leadership Hall of Fame and Spirit of Achievement Awards dinner on October 27.

An Array of Applications

A grant from the James H. Cummings Foundation put a revolutionary molecular tool in the hands of Canisius biology students this fall. Developed concurrently with the successful mapping of the human genome in 2001 (*Canisius College Magazine*, spring 2004), the microarray gene reader uses genome sequence information to analyze the expression of tens-of-thousands of genes at a time.

“Under the old technology, we could look at the expression of one or two genes

at a time,” explains Robert J. Grebenok, PhD, an associate professor of biology and one of the first Canisius faculty to incorporate the microarray gene technology into course laboratories. “With this new technology, for example, we can look at the expression level of every gene in the human genome – that’s approximately 40,000 genes – with one experiment. As a

result, scientists can generate huge amounts of data in a very short time period and ask fundamentally important questions about the correlation between gene expression and the characteristics of an organism.”

In a typical microarray experiment, “sample” DNA or RNA taken from an organism is placed on a glass slide (about the size of a thumb), which holds thousands of specific DNA fragments that represent the entire genetic content of an organism. Any sequences in the sample that match with the DNA fragments will bind to a specific spot on the slide. The microarray gene reader then determines the amount of sample bound to each spot and

provides a measure of *expression of each gene. (*Expressed genes are those that are transcribed into RNA and then translated into protein.) This process enables scientists to determine how various cells, tissues or entire organisms respond genetically to changing conditions.

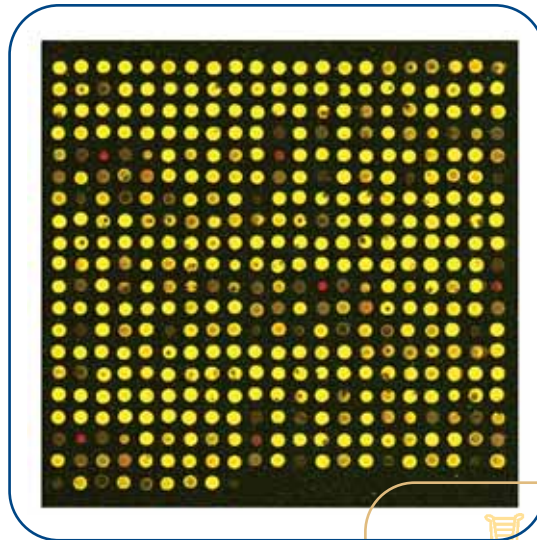
The microarray gene reader can be used to answer basic biology problems. For example, it can facilitate the genetic comparison of a cell that is in a resting state to the profile of a cell that is dividing,

which enables scientists to determine which genes are turned “on” during cell division. Microarrays also have medical applications. They can compare the profile of a cancer cell with that of a normal cell, and help scientists diagnose the genetic causes of different cancers. Better diagnosis can lead to more informed treatment choices.

“One of the big areas in medical research is

looking to what extent different tissues or cells that are diseased change the expression of the genes controlling their shapes, their structures or change the timing of their divisions,” says Grebenok. “The microarray gene reader allows us to identify the change in each gene that is occurring when a cell goes from a normal cell to a cancer cell.”

This spring, a grant from the Howard Hughes Foundation will enable the college to host a genomics workshop for Canisius faculty and various other faculty from colleges and universities around the country. The workshop will include ideas on how professors can incorporate the microarray gene reader into coursework.



Skrzycki '76, Eberl '92, join Board of Trustees

Cynthia L. Skrzycki '76 is the newest member of the Canisius College Board of Trustees. Skrzycki

is serving a three-year term, which began July 1. The Board of Trustees formulates and recommends policy to Canisius President Rev. Vincent M. Cooke, S.J.

A business columnist for *The Washington Post*, Skrzycki covers federal regulatory issues. Since November 1993, she has written a weekly column, "The Regulators," which examines the work of Washington regulation. Skrzycki is also the author of *The Regulators: The Anonymous Power Brokers Who Shape Your Life* and a journalist-in-residence at the University of Pittsburgh.

Nora E. Eberl '92 will serve as an *ex-officio* member to the Board of Trustees. As president of the Canisius College Alumni

Association, she is a voting member of the Board.

Eberl is the chief financial officer and human resource officer at Eberl Iron Works Inc. She is also an ardent community volunteer for organizations such as the Martin House Restoration Corporation and the American Red Cross Greater Buffalo Chapter. In 2002, *Business First* recognized her on its "Forty under 40" list of most influential leaders in Buffalo.

Board of Regents Elects Seven New Members

The Canisius College Board of Regents elected seven new members to three-year terms this fall. The new members are part of an advisory group to Canisius President Rev. Vincent M. Cooke, S.J. and the college's Board of Trustees. The new Canisius College Board of Regents members are:

Gregory J. Castiglia
Neurosurgeon,
Buffalo Neurosurgery Group

Ann E. Celani '74
Chief Financial Officer,
Spearhead Transportation

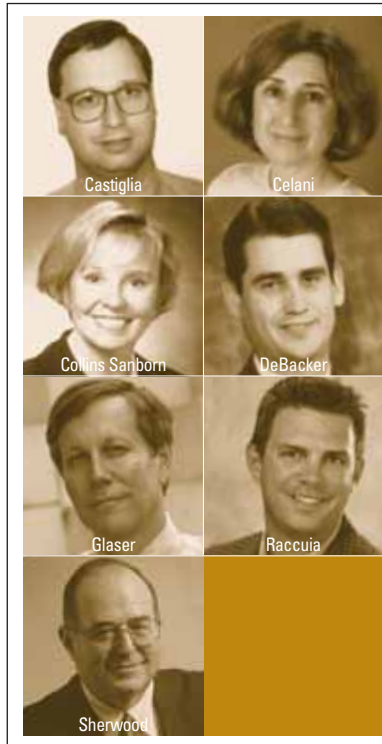
Mary Collins Sanborn
President/CEO,
Collins Advisors LLP

Mark D. DeBacker
Senior Vice President/
Chief Financial Officer,
Evans National Bank

Robert M. Glaser '68
Managing Partner,
Freed Maxick & Battaglia

Ronald A. Raccuia '90
President,
Integrity Distribution Inc.

James E. Sherwood '68
Dean of University Extension,
University of California



Laura Trzybinski

Trzybinski Named New Swimming & Diving Coach

Laura Trzybinski took over this fall as the new coach of the men's and women's swimming and diving teams. A 2003 graduate of St. Bonaventure University, Trzybinski was a three-year letter winner for the Bonnies.

"I believe Laura will be a great fit here at Canisius," says Timothy J. Dillon, director of athletics. "Her extensive swimming background and enthusiasm about the program will undoubtedly take Canisius swimming and diving to the next level."

A former assistant swim coach for St. Joseph's Collegiate Institute in Buffalo and St. Joseph's Academy in Cleveland, OH, Trzybinski also assisted St. Bonaventure's swim coach, Lance Brennan, following an injury during her senior season.

Trzybinski replaces Jason Morini who resigned to take the same position at College Misericordia in Dallas, PA.

In memoriam

Canisius College lost a dear friend this fall. Katherine E. Keough, PhD, founding dean of the college's School of Education and Human Services, passed away on September 25 from complications related to bone cancer. She was 61.

At the time of her death, Keough was president of St. John Fisher College in Rochester, NY. She was the first woman to hold that position.

Quadrangle QUERY

If you have a flair for writing or an eye for art, then why not contribute to the *Canisius Quadrangle*? The college's annual arts and literature journal is soliciting submissions for its 2005 edition. All forms of writing, poetry and prose are accepted. Illustrations, sketches and photography works are welcome, as well.

Submissions to the *Quadrangle* must be received by February 1, 2005 and may be forwarded to quadmag@canisius.edu.

New Minor Examines Catholicism

Beginning in fall 2005, undergraduate students at Canisius can minor in Catholic studies. The new program, offered through the Religious Studies Department, is designed to prepare students for leadership positions within the Catholic Church and church-affiliated organizations. The interdisciplinary study will include courses in art, architecture, communications, law, literature, politics and psychology, and explore how these intellectual disciplines have been influenced by Catholicism.

"The Catholic studies program expresses Canisius' heritage and identity," said Rev. Patrick J. Lynch,

S.J., associate professor of religious studies at the college and director of the program. "It is a way to introduce students to the wealth of the Catholic intellectual heritage and to improve their knowledge of Catholic beliefs, doctrines and rituals."



The Catholic studies minor will also encourage students to participate in internships at local Catholic institutions, among them Catholic Charities, Diocesan offices, area parishes, or parochial schools and hospitals. In addition to providing a community service experience, these internships will give students an opportunity to become involved with the institutional infrastructure of the Catholic Church, and to better understand its workings and influences.

To learn more about the new Catholic studies minor, contact Rev. Patrick J. Lynch, S.J., at 716-888-2831 or visit the religious studies Web site at www.canisius.edu/rst.

Upcoming Events at Canisius

The Canisius College Program in the African American Experience

MACY FAVOR & HIS JAZZ QUARTET
November 30, 2004 | 7:30 p.m.
Grupp Fireside Lounge
Host of the "Jazz Favorites Hour" on WBFO-AM

BARBARA RANSBY, PhD
February 4, 2005 | 7:30 p.m.
Grupp Fireside Lounge
Associate professor of African American studies and history at University of Illinois at Chicago and author of *Ella Baker and the Black Freedom Movement: A Radical Democratic Vision*

Canisius and the BPO Connection Concert Series

INFORMALLY-FORMAL CHAMBER CONCERT
February 8, 2005 | 7:30 p.m.
Montante Cultural Center
Featuring members of the BPO string section

For a complete list of upcoming events at Canisius, visit www.canisius.edu/newsevents.

Canisius Helps Build a Better Buffalo

Canisius released its 2004 community service annual report this fall and according to the findings, the college is having a significant impact in the Western New York area.

As of June 1, 2004, the college employed 633 full-time and 341 part-time faculty, staff and administrators. This places Canisius among the 100 largest employers in Western New York. The college's annual budget for the 2003-2004 fiscal year, net of student financial aid, was \$72.3 million. If Canisius were a privately-owned company, that would place it in the top 25 in Western New York, in terms of revenue.

In the past 11 years, the college has invested more than \$100 million in nearly 20 capital projects on campus, all of which have been funded from private borrowings, fund raising or operating surpluses. An economic multiplier of 2.5 would translate the impact of \$100 million in capital spending into a total impact of \$250 million in the local community. Additionally, no other institution in the city of Buffalo has invested more of its own money in building and expansion, during the past decade.

To read the Canisius College community service annual report in its entirety, visit www.canisius.edu/govrel/servicereport.asp.

Record Enrollment for Class of 2008

At Canisius only a few months and already the Class of 2008 is making history. The number of freshman students enrolled this fall totals 885. That is the largest student body the college has seen since 1988.

The female-to-male ratio of the freshman class is 59-to-41 percent. The average SAT score is 1104; the high school GPA is 89.9. Sixty percent of the freshmen will reside on campus.

