Research Changes Lives
Five Decades of Honors
The Evolution of Collier
Prelude: Transforming Minds, Landscapes, and Communities

By Diane Husic, chair and professor of biological sciences and president of the Council on Undergraduate Research

Honors Program Is Golden

As Moravian celebrates fifty years of Honors, alumni say the College’s original research program gave them the confidence and skills to follow their dreams.

Special Intelligence

A passion for research helped put Judith Share Yaphe ’66 near the center of several historic world events.

The Evolution of Collier

Plan for the future: a proposed expansion of the Hall of Science would prepare the next generation of Moravian scientists.

Moravian College Magazine: editor, Victoria Bingham; sports editor, Mark J. Fleming; web manager, Christie Jacobsen ’00; director of publications, Susan Overath Woolley; director of public relations and marketing, Michael P. Wilson.

Cover: Honors candidate Hadia Riaz ’10 researched the DNA binding patterns of antitumor-active rhodium compounds by gel electrophoresis, using fluorescent SYBR Gold stain.

See www.moravian.edu/magazine/extra for more from this issue.
PRELUDE  Stories from the Moravian community

<<<< Might we play a part in the development of some new revolution—one that could help determine the future of the planet? >>>
Transforming Minds, Landscapes, and Communities

By Diane Husic, chair and professor of biological sciences and president of the
Council on Undergraduate Research (Read more at www.moravian.edu/magazine/extra.)

With roots that date to 1742, Moravian College has a depth of history that few other colleges can claim. The humanistic ideals of the seventeenth-century Moravian bishop John Amos Comenius—that learning should be in accord with human nature, and that education should be applied to practical uses—continue to guide our mission and curriculum.

But besides our unique history, what makes a Moravian College education unique?

Strong programs of undergraduate research, scholarship, and creativity set us apart, I believe. Moravian has offered an Honors Program for fifty years! Today, our students are presenting their scholarly work at regional and national conferences and in our state and national capitol. Moravian hosts the country’s only undergraduate conference on medieval and early modern studies—an event that has quickly grown in size and recognition. This spring we also will host undergraduate conferences in math, philosophy, psychology, and neuroscience.

What’s more, Moravian undergraduate research has strong community relevance and value. Our psychology and education students analyze local classroom situations and provide valuable recommendations. Student Affairs and the Leadership Center offer countless community-based research projects that benefit our students and the larger community. Within the natural sciences division, students work with non-profits to study the impact of watershed restoration initiatives; they research the Mid-Atlantic Highlands Critical Treasures; and they try to determine why asthma rates in some local school districts are many times those of the national average.

One Moravian research project is particularly unique. As of 2009, only 322 of our nation’s 1,596 Superfund sites have been cleaned up and de-listed. And only one site has been converted to a nature center and deeply involves undergraduates and faculty from a small, private liberal arts college in the restoration work and conservation research. This is the Lehigh Gap Nature Center (LGNC; see www.lgnc.org) located within the Palmerton Zinc Superfund site, where Moravian students and faculty members have worked since 2005. The progress at this site has received state and national attention, and the Moravian-LGNC partnership is the subject of a case study on transformational research in a recent national publication.

Our Community Classroom

I find it quite fitting that members of the Moravian community are again trekking along the Lehigh River, up through the gap, to engage in significant projects. Some of the earliest Moravian missionaries went through the same gap in the 1740s, and their experiences are documented in the Moravian Archives.

The historic connections between the College, the Moravian community, and the region are many—from the recent collaborative HILL project, to our rich music traditions, to the deep value we place on community. Besides being in historic Bethlehem, the Moravian campus is also in the heart of the region that gave birth to the Industrial Revolution in this country. Only remnants of the canals, rail lines, smelters, and steel mills are left, but the Lehigh River still links us to this history. Instead of using textbooks to tell the story, we can take our classes to see these places and hear the oral histories as told by the residents who once worked in these industries.

The Next Revolution?

We now know the Industrial Revolution that helped our nation become a world power also led to a damaged landscape and polluted environment. The coal resource so important to this development is still important to the state; so much so that Pennsylvania is one of the world’s largest contributors of greenhouse gases.

But this past and these current problems also present Moravian with unique opportunities. In Moravian educational tradition, might we apply the lessons of the liberal arts to address this new era? Might we play a part in the development of some new revolution—one that could help determine the future of the planet?

Last fall, Moravian College was selected to be an official civil society observer for the United Nations Framework Convention on Climate Change (see p. 4). Our delegation of faculty, students, alumni, and friends of the College witnessed negotiations between 185 member nations. We heard loud and clear the messages of the growing climate justice movement; met Nobel Prize winners; and saw moving examples of artists’ responses to concerns about a changing environment. This was a liberal arts education at its best!

At a time when many schools focus on the quantity of students taught regardless of teaching quality, Moravian College values close interactions between faculty and students that lead to deep, engaged learning. And true to our mission, we continue to make significant contributions for the common good. Our achievements in educational research and our commitment to the education of individuals make Moravian College unique, indeed.

Left: “Ophelia’s Redemption” (2010), digital C-print, 30” x 40”; by Krista Steinke, assistant professor of art. Part of the artist’s new series that draws upon familiar references from literature, film, psychology, art history, and visual culture to explore contrasting themes such as transgression and salvation.
Negotiating Our Future

In December, a group of Moravian students, alumni, and faculty members gained a deeper understanding of the issues related to climate change—and why reaching global agreement about the way forward remains so daunting. Moravian was one of only six private liberal arts undergraduate institutions in the United States selected to serve as a “civil society observer” at the United Nations Framework Convention on Climate Change held in Copenhagen. Students attended the conference as part of “COP 15: Negotiating Our Climate Future,” an intensive interdisciplinary course with a “real world” classroom. Professors Diane Husic, chair of biological sciences, and Hilde Binford, associate professor of music, co-taught the class. Besides gaining a grasp of the issues, students and alumni took home lasting memories of the people they met: distinguished scientists, political leaders, and artists from nearly 200 nations. Alumni attendees included Jaime Marks Corvino ’04, Laura Smith ’09, Jim Zaremski ’95, Jeremy Sawruk ’03, Sarah Ahlgren ’02, Susan Gangwere McCabe ’79, and Terry-Rene Wiesner Brown ’94. Read Jim Zaremski’s article at www.moravian.edu/magazine/extra. Also read reports at http://moraviancollegeatunfccc.blogspot.com/.
Members of the Moravian College Dance Company—present and past—performed pirouettes, jetés, and glissades across the stage of Foy Concert Hall March 26 and 27, celebrating thirty-five years of dance at the College. The retrospective event included works choreographed and performed by students, alumni, faculty members, and local guest artists.

A group of dance company alumni returned to reprise their popular 2005 dance, “Mein Herr,” choreographed by Katie Washer ’06. Former artistic director Pattie Bostick-Winn also returned to choreograph the opening dance, “Sing, Sing, Sing.”

Under the artistic direction of Mary Anne Gillen Hoffman, the student troupe performed modern, jazz, and ballet pieces, including several original works. For the new “Swing, Swing, Swing,” dancers took up tennis racquets to serve a tribute to company founder and advisor Dawn Ketterman Benner, who is also the Moravian women’s head tennis coach and associate director of athletics. Ketterman Benner, who began the Moravian College Dance Company in 1975, recalled the early days when dancers would practice on concrete floors in the gym. “Our first public spring performance was in Johnston Hall with no lighting, very simple costumes, and one-page mimeographed programs,” she recalled. “The big piece that year was ‘Rhapsody in Blue.’”

A founding member of the Lehigh Valley Dance Consortium with professional connections here and in New York, she helped the club grow in membership and support. In 2000, after twenty-five years as full-time director of the company, Ketterman Benner took on a more behind-the-scenes role as a very active advisor.

“The artistic directors that have followed me have had extensive training,” she said. “Mary Anne has taken the dancers to a new level.” Hoffman, a former faculty member of the Ballet Guild of the Lehigh Valley, has studied at the Boston Conservatory, and has danced with professional companies in New York and Pennsylvania.

Moravian dancers all agree that membership lasts a lifetime. “Collaborating with these incredible young women to create art forms a unique bond that lasts forever,” said Ketterman Benner. “Working with them has been very healing for me—I’m blessed to have this opportunity.”

As advisor, Ketterman Benner supports the company however she can, assisting Hoffman in the weeks leading up to major performances, managing company finances, and overseeing the Dawn Ketterman Benner Dance Fund, which provides master classes and field trips.

“I just want to make sure that the Moravian College Dance Company stays alive,” said Ketterman Benner. “I hope it remains an integral part of Moravian College life after I’m gone.

“People sometimes ask why I’ve stayed at Moravian all these years. I’ve stayed here for the students—I hope I’ve had some impact on their lives.”
Imagine being given $20,000 to invest as a 20-year-old. If you bought stocks and invested in nothing else over the next forty-seven years, you could expect to retire comfortably with more than $1 million.

Of course, that reasonable expectation hinges on making smart investments—like those made by Moravian’s Amrhein Investment Club since its inception forty-eight years ago. Established in 1962 with a gift of $20,000 donated by Mr. and Mrs. Irving Amrhein, the Amrhein Investment Fund has grown to more than $1.4 million and is one of the largest student-run funds in the country. Each year, a portion of the fund’s income is used for student financial aid; most years, the club contributes $10,000 toward the Amrhein Scholars awards.

By managing the $1 million-plus portfolio, students learn how to make money. But the dividends of club participation are much more than financial, says club advisor Linda Ravelle, associate professor of economics and business. Students also develop skills in research, public speaking, and leadership—all essential for success in business and most other careers. And that adds up to a big competitive advantage when seeking a job, say Amrhein alums.

Professor Ravelle estimates the club has almost 500 alumni nationwide. The club would like to strengthen connections to Amrhein alumni; if you are an Amrhein Club alumnus/a, please contact Corey Koenig ’11, club president, at stcck01@moravian.edu.

This Club Pays Big Dividends

Rajie Cook, Seeking Peace by Design

“I remember coming out of a refugee camp and breaking down and crying. It was like a prison. The people live in squalor. I said ‘I must do something to create public awareness about this. As a designer, I can communicate this.’ The thing that affected me most was seeing what is happening to the children. There’s got to be peace—for both peoples.”

—Rajie Cook, an award-winning designer (aka Roger Cook), artist, and member of the Presbyterian Church’s Task Force for the Middle East. Cook visited Moravian College students in February to discuss his life and his most recent work—sculptural assemblages designed to raise public awareness about the need for peace in the Middle East.

Cook discussed his work, including “A Shared Jerusalem” (left) and “A Time to Cast Stones II,” during a visit to the Moravian campus February 2, 2010.
Music Students Play It Forward

Music, the universal language, has helped to forge a special bond between six Moravian music majors and forty fourth- and fifth-grade music students at Donegan Elementary School in south Bethlehem.

For the past year, Moravian students have mentored the young musicians after school, one afternoon each week, giving advanced instrumental instruction with guidance from Deborah Andrus, Moravian artist-lecturer in clarinet.

The new program seems to be hitting all the right notes. “My students really look forward to their time with the Moravian students,” said Bethlehem music teacher Janelle Zook. “And they’ve progressed so much more quickly than in the past when I was teaching them by myself.”

The lessons are more than musical. The fourth- and fifth-graders see “what it looks like to be in college and to serve your community,” added Zook. At the same time, the college students take away important lessons about teaching.

“When Dr. Andrus asked campus members of Delta Omicron, the music fraternity, to join this pilot program at Donegan Elementary, I immediately accepted,” said Justin Holguin ’11. “It’s a great opportunity to use our gifts to give back to the community by helping students who need musical guidance. I learned not only about teaching, but also about myself.”

Moravian College music students, including Courtney Eby ’10 (above) and Justin Holguin ’11 (left), mentor young musicians at Bethlehem’s Donegan Elementary School one day per week. The program, launched by Moravian College artist-lecturer Deborah Andrus, is funded by a community grant.

MORAVIAN BOOKSHELF

- The Way of Ecopiety: Essays in Transversal Geophilosophy, a collection of twenty selected writings by Hwa Yol Jung, professor emeritus of political science, spans nearly four decades of the author’s thinking on environmental ethics and philosophy. Professor Jung wrote the first essay, “The Ecological Crisis: A Philosophic Perspective, East and West,” in 1970 for the first Earth Day. The essays describe and promote a philosophy that includes characteristics of Confucianism, Daoism, Zen Buddhism, and contemporary Western environmental philosophy.

- A new textbook, co-edited by Dana S. Dunn, professor of psychology, promises to help psychology educators help their students see—and navigate—the various pathways that lead beyond the undergraduate classroom. Best Practices for Teaching Beginnings and Endings in the Psychology Major: Research, Cases, and Recommendations, edited by Dana S. Dunn, Bernard C. Beins, Maureen A. McCarthy, and G. William Hill IV, provides psychology educators effective and innovative strategies for teaching introductory orientation and capstone courses for psychology majors.
Opened in fall 2009, the Hurd Integrated Living and Learning facility took Moravian student life to a whole new level. Developed through a partnership between Moravian College and the Bethlehem Area Moravians, the $25 million state-of-the-art building housed 230 residents its first year. Many were freshmen who lived in one of two sixteen-bedroom suites designed for group activities and co-curricular learning. Midway through the spring semester, student enthusiasm still ran high.

“Living in the HILL’s sustainability-themed living and learning suite this year was an experience of tremendous personal and academic growth for me,” said Caiti Campbell ’13, an environmental studies major. “The program allowed me to immerse myself in my major and to connect with professors and guest speakers. Best of all, there was a feeling of family. At the end of the day, there was always someone there for you.”

Caitlin and her suitemates swept the Lebensfeld contest for best Writing 100 essay; volunteered to serve at hospitals, daycare centers, and other local organizations; and stormed dorm rooms to collect recyclables. “A few of us are applying to become the ‘big sister sustainability suite’ next year,” she said. “If accepted for this special interest housing, we will act as mentors to make sure next year’s freshmen bond the way we did.”

The HILL, Freshman Year

Top of the HILL (this page): Students quickly staked their claims for digs in the new living and learning facility last summer. The HILL features thirty-nine student suites, all with private bedrooms and common living and kitchen areas; four multi-media learning rooms; wireless internet access; wellness center; and café. Sustainable design and construction methods conserve water and reduce energy use. At the dedication ceremony (p. 9), President Thomforde cited the role of community: “It takes a community to provide a place for men and women to live and learn together in community.”
Freshmen residents bond through shared classes, such as “Sustainable Communities: Living and Learning for the Future,” held in the HILL (left) and spontaneous extra-curricular activities, such as Valentine’s Day arts and crafts projects (above center).

Above: Board president Lyn Trodahl Chynoweth ’68, Rev. Douglas Caldwell ’66, and President Thomforde dedicate the building.
As America’s relatively calm Eisenhower era was coming to a close, Moravian College was concluding a decade of radical change. Separate men’s and women’s colleges merged into a single, co-ed Moravian College; the first faculty members not of the Moravian faith were hired; and enrollment surged as veterans seized educational opportunities made possible by the G.I. Bill.

“It was a very exciting time to be at Moravian,” recalled Dan Gilbert, professor emeritus of history, who was hired in 1953. “New faculty members with new ideas were energizing the campus.”

It was all part of the plan. More than a decade earlier, the Greater Moravian Committee (faculty members, key church leaders, alumni, and others) concluded that the future of the College depended on growth. Besides boosting enrollment and building new facilities, the committee sought to distinguish Moravian from other local colleges by bringing in the best and the brightest faculty members.

And it did. Students were eager to learn all they could about thermodynamics from physics professor Jack Ridge, to be inspired by the “superb teaching” of English professors Lloyd Burkhart and Robert Burcaw, and to soak up the intriguing views of political science professor Otis Shao. But the desired growth happened almost too quickly. “Class sizes went from twenty to sometimes fifty or more, so we weren’t able to spend time with the most advanced students,” explained Gilbert.

A committee of faculty members chaired by classics professor George Tyler decided to move forward with a new yearlong program that would challenge the best senior students through independent research guided by a faculty mentor.

Seven Moravian students completed the Honors Program in 1960, earning the College’s first Honors designation upon graduation that year. The inaugural class included Joseph Powlette (physics), now Moravian professor of physics; David Schattschneider (English), dean emeritus and vice president of Moravian Theological Seminary; and Peter French (history), a former academic dean and university president.

Through the years, the program was refined but the basic model—two semesters of research, a paper, and an oral exam—has not changed.

“Students work independently, but the faculty member gives them the guidance, challenge, and hands-on relating that a bigger university cannot provide,” said Martha Reid, professor of English and program chair. “We enable students to do their best work—and most of them do. It’s so exciting when that happens.”

Since 1960, more than 750 Moravian students have earned Honors designations.
Moravian Honors graduates have gone on to distinguish themselves in a variety of fields within the physical sciences, social sciences, and the arts.

Five of them recalled their Honors experience and how it shaped their lives.

**JOSEPH POWLETTE ’60, professor of physics, Moravian College**

**Honors Project:** “A Study of Thermocouples”

**Advisor:** Jack Ridge, professor of physics

“No one knew what to make of it” that first year, recalled Joe Powlette, professor of physics and one of seven Moravian graduates to earn the College's first Honors designation in 1960. “My advisor, physics professor Jack Ridge, asked if I wanted to participate.

“I went to the library stacks and read something about thermoelectricity by Abram Ioffe, the Russian physicist, and really liked it.” Intrigued by the idea of studying thermocouples, Joe Powlette began experimenting in Memorial Hall’s small physics lab (pre-Collier Hall of Science). But the results were not what he’d expected. “I was ready to stop, but Jack Ridge told me, ‘no, keep working on it.’”

One evening, as the two sat at a table in Ridge’s home—puzzling over the problem with pencil and paper—Professor Ridge worked out an equation that explained the phenomenon. “Jack was so brilliant in thermodynamics, he was able to figure it out. He was a tremendous teacher and a talented theoretician,” said Powlette. “I came to teach at Moravian, basically, because of him.”

As a professor of physics, Powlette went on to advise thirteen Honors students of his own, including Kelly Krieble ’86, who also returned to Moravian to teach physics and advise the next generation of Honors candidates. Two current candidates, Matthew R. Bross ’10 (“Surface Profile Visualization of the Radial Hydraulic Jump”) and Benjamin J. Sofka ’10 (“A Study of Vibrated Granular Materials”), are advised by Professor Krieble, who now serves as chair of the Department of Physics and Earth Science.

**JANINE JAGGER ’72, professor of medicine, University of Virginia School of Medicine; founder and director of the International Healthcare Worker Safety Center**

**Honors Project:** “The Effect of Amphetamine and Barbiturate on the Extinction Threshold and Rate of Self-Stimulation in Rats”

**Advisor:** Richmond Johnson, professor of psychology

Janine Jagger has never been afraid to blaze new trails in research. For her 1972 Honors project in psychology, she wanted to investigate a topic never before studied at Moravian.

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**A Random Sampling of Moravian Honors Projects**

1963  **H. Joseph Trodahl (Physics)**
“A Study of the Variation of the Hall Effect with Magnetic Field in a Single Crystal Germanium Sample”

1967  **Gary Carl Luckenbill (English)**
“Aspects of the Portrayal of Man’s Response to God in the Twentieth-century Novel”

1975  **Helen C. Kinder (Music)**
“Carl Ruggles, a Composite View”

1976  **Sherry Lyn Osmun (Art)**
“The Portrayal of Women in American Print Media Advertising from 1950-1989”

1977  **John R. Fisher (Biology)**
“The Effects of Castration, Testosterone Propionate, and Estradiol Valerate on the Wheel-running Activity of the Male Mouse”

1983  **Elizabeth A. Hall (Management)**
“Cultural Influence on Group Decision-Making in American and Japanese Business Firms”

1986  **Carol A. Traupman (Music)**
“The Orchestral Technique of Gustav Mahler: A Formal and Timbral Analysis of Three Symphonies and Three Song Cycles”

1990  **Brendan J. Wright (Political Science)**
“The Naked Citizen: Constructive and Constricting Powers of Human Nature Claims in Political Theory”

1996  **Samir Stewart (Economics)**
“Development Issues in India: Past and Future”

2001  **Melissa Garrison (Psychology)**
“Cognitive Variables in Humor Assessment”

2006  **Kelly LaTourette (Mathematics)**
“Explorations of the Collatz Conjecture”

2009  **Scott Ehrenburg (Spanish)**
“Pololos, Prostitución y el Palacio de El Pardo: Identity and Gender Role Contradictions for Spanish Women during the 1940s-1950s”
More interested in the neurological basis for behavior than its social origins, she hypothesized that rats would perform for a reward at a higher rate under the influence of a stimulant rather than a sedative. Her proposed research would require fairly sophisticated procedures and equipment.

“Another advisor might have discouraged me,” recalled Jagger. “But Professor Johnson made me feel free to try something I felt passionate about.” She implanted electrodes in the area of the rats’ brains associated with reward, then tested her hypothesis. The outcome was a surprise: with the stimulant, the rats bar-pressed so rapidly that they suffered seizures, slowing their response. The sedative improved performance because it prevented seizures.

“We often get unexpected findings in research—more than expected findings. This was my first major independent research project, and it influenced my career choice. It made me want to pursue a career in research—I’ve been doing it ever since then.”

For the last twenty-plus years, Jagger’s research has focused on improving the safety of medical devices through a data collection system that she devised.

“Early in the AIDS epidemic, a colleague came to me and said ‘healthcare workers are always getting stuck with needles, but now the needles have the AIDS virus on them. Any ideas about what we can do about this?’ I said ‘sure, make the devices safer.’”

In 1988, Jagger and her colleagues published a landmark study in the New England Journal of Medicine that identified device design as the cause of needlestick injuries and proposed new design standards to reduce risk to users. Her device design standards became law in 2000, when President Clinton signed the Needlestick Safety and Prevention Act; in 2002 she was awarded a MacArthur Fellowship for her groundbreaking work. Jagger and her colleagues are the inventors of numerous patented safety needle devices, and her data collection system, EPINet, is now used by healthcare providers in more sixty countries.

“The common thread through my entire career has been research. The thrill of pursuing an original hypothesis has never left me.”

**Douglas Anderson ’80, professor of philosophy, Southern Illinois University Carbondale**

**Honors Project:** “A Challenge to Determinism”

**Advisor:** Frederick McConnell Jr., associate professor of philosophy

Standing on a ladder, plucking apples and peaches, is a perfectly good place to ponder the nature of existence, knowledge, and ethics, Doug Anderson discovered.

As a student, Anderson often visited his Honors advisor and mentor, Professor Fred McConnell, at McConnell’s 80-acre orchard, where the two talked philosophy while filling fruit baskets. “Fred spent as much time in his orchard as he did in the classroom,” said Anderson. “He believed that philosophy should be a normal thing—you should be able to talk about it and work with your hands at the same time. That down-to-earth attitude influenced me greatly.”

Now widely respected for his thinking and writing on American philosophy and its relationship to culture (including sports, music, and education), Anderson credits Fred McConnell and other Moravian mentors for his professional focus and approach to teaching.

“I was very fortunate to have had the support I had at Moravian. Besides getting a chance to hang out with my professors, my Honors experience helped prepare me for graduate school. My Honors project was more than 100 pages long, and I had to defend it before the Honors committee. I still remember Dean [James] Heller asking very tough technical questions.”

In March, Anderson returned to Moravian to address another group—this time, the attendees of the first Lehigh Valley Undergraduate Philosophy Conference, for which he was the plenary speaker.

A perennial student of the history of philosophy and American philosophy,
Honors Program Is Golden

Research Grows at Moravian

Over the last decade, undergraduate research opportunities at Moravian have grown beyond the Honors Program for advanced senior students:

- **SOAR (Student Opportunities for Academic Research).** Funded in part by the Ervin J. Rokke Endowment for Student-Faculty Research, established by Priscilla Payne Hurd, the SOAR program supports student scholarly or creative work through close interaction with faculty mentors. SOAR participants often continue their research in the Honors Program.

- **Undergraduate academic conferences.** Moravian hosts undergraduate research conferences in medieval and early modern studies, mathematics, philosophy, and neuroscience. Students also present their work at state and national academic conferences and sessions.

- **History Fellowship Program.** For highly-motivated, successful history and history/education students. Fellows enjoy one-to-one interaction with faculty mentors, gain a sense of responsibility, and learn to think strategically.

- **Other student research opportunities** include study abroad, field study, service learning, and independent study.

Douglas Anderson has authored numerous books, including *Creativity and the Philosophy of C. S. Peirce and Philosophy Americana: Essays in American Philosophy and Culture.*

**THYRA HARTSHORN ’91, director of production, Oregon Ballet Theatre**

**Honors Project:** “A. R. Gurney Jr.’s Another Antigone: Prompt Book and Essay”

**Advisor:** Jack Ramsey, professor of drama

Her first day at Moravian College, Thyra Hartshorn dragged her roommate to the Arena Theatre to sign up for a production of *The Damask Cheek.* She was hooked on theater but did not believe it could ever be more than her hobby—until her mentor, Professor Jack Ramsey, suggested otherwise. Dr. Ramsey told her she could make a living doing theater, and his words changed her life. With his support, Hartshorn went on to direct A.R. Gurney’s *Another Antigone* as part of her senior Honors project.

“My Honors project gave me confidence that I could get work in theater and proceed up the ladder,” said Hartshorn. “It was eye-opening to be the full decision-maker as the play’s director. It gave me insight into a director’s needs and made me a better stage manager. That’s when I really began to learn the many aspects of theater production.”

After graduation, she turned to Doc Ramsey again, seeking his advice about whether to accept a fellowship at the University of California Irvine to work on her M.F.A. He provided perspective, suggesting that a graduate degree in stage management would allow her to do anything she wanted.

Fifteen years later, she’s going strong. “I’m still in the arts, and I have managed to make a living at it,” she says. “I’ve been fortunate to be able to tour all over the world with great companies such as San Francisco Ballet and American Ballet Theatre.” As director of production at Oregon Ballet Theatre, she helps bring to life the company’s productions of George Balanchine’s *The Nutcracker,* Nicolò Fonte’s *Bolero,* and others with lighting, wardrobe, set, and sound. And now that Jack Ramsey, professor emeritus of drama, has relocated to the Seattle area, Hartshorn hopes he will make it to Portland for her next production.

**CASEY HOFFMAN ’06, Ph.D. candidate in mechanical engineering, Rensselaer Polytechnic Institute**

**Honors Project:** “An Experimental Investigation of the Effects of Physical Parameters on the Circular Hydraulic Jump”

**Advisor:** Kelly Krieble ’86, associate professor of physics

Ever wonder why water from a faucet spreads out in a thin layer until its height rises abruptly at a discrete distance from the center of the flow? Casey Hoffman was so intrigued by the phenomenon, known as the circular hydraulic jump, that he explored the topic for his Honors thesis research with Kelly Krieble, associate professor and chair of physics.

“Moravian professors know their students and care about them,” said Hoffman, a Ph.D. candidate at Rensselaer Polytechnic Institute. “I’ve had many teachers in my life, but I don’t know of any more committed to education and the success of their students than [physics] Professors [Joseph] Powlette, [Edward] Roeder, and Krieble. Without a doubt, my most special memory of Moravian is of the friendships I formed.”

Hoffman, who had been considering a Ph.D. even before he began his Honors thesis, said the experience confirmed that research was the right path for him. He’s already making waves at RPI with research focused on innovative manufacturing methods for fuel cell electrodes. Last fall, he was part of a team that designed and built a hydrogen fuel cell-powered boat, christened the *New Clermont.* Its path, from New York City to Albany, followed Robert Fulton’s historic steamship journey aboard the *Clermont* 200 years ago and raised awareness for clean, sustainable energy sources.

Hoffman was named a finalist for RPI’s prestigious Lemelson Prize, recognizing his patent-pending “specialized elastomeric tooling” invention. The invention dramatically reduces the cost and energy needed to manufacture advanced thermoset composites—materials made of high-strength fibers used in aerospace, medicine, transportation, and alternative energy industries.

Kate Helm ’05 contributed to this article.
A passion for history and research helped give Judith Share Yaphe ’66 an inside view of several historic world events.

By John Greenya

Did I know, when I was studying history at Moravian, where I’d end up in life? Of course,” says Judith Share Yaphe ’66. “I was going to end up at a college or university, teaching history.”

And she did. But not for quite a while, and not before she had established herself as one of the country’s top experts on terrorism in general and on Iraq, Iran, and Islamic fundamentalism in particular. In recent years, one would be more apt to catch Yaphe on Nightline, The NewsHour with Jim Lehrer, or CNN, trading views with other experts on the Middle East, than walking across a campus lawn. A winner of the Intelligence Medal of Commendation and other awards (including Moravian’s 2003 Comenius Award), Judith Yaphe calls it as she sees it.

A funny thing happened on the way to academia. After graduating from Moravian College with a B.A. in history in 1966, “I thought I might take a year off—maybe join the Peace Corps.” But Dan Gilbert, Moravian professor emeritus of history and Yaphe’s esteemed mentor, “told me not to waste time. Get the degree now.” Within six years, she earned her Ph.D. in Middle East history from the University of Illinois.

Few colleges were hiring new teachers in 1972, especially for “programs they considered non-essential, like the Middle East, my specialty.” But at the American Historical Association annual convention that year, the CIA was recruiting. “I agonized over interviewing with them,” fearing that working there would be “the professional kiss of death” for a Middle East scholar who hoped to teach at a university someday.

“Fortunately, I was wrong. I was interviewed by a specialist on Syria who thought my background was perfect,” she recalls. “I had written my thesis on Iraq, and he thought that was wonderful.”

An Eye on the Middle East

For the next two decades, the CIA was Judith Yaphe’s professional home, and she rose through its ranks to become one of the Agency’s most valued analysts, working mostly in the Intelligence Directorate’s Persian Gulf Division.

The new CIA employee found her work environment to be very different from the university life she had imagined. “It seemed to be an alternative universe. I am cautious by nature—I like to research carefully and think through a problem or issue. No time for such luxuries at the Agency. I was hired for my expertise, and in the long run, I did well. It was exciting and honest work, and I had a very good career there.”

Two periods, in particular, demanded her specific expertise and critical thinking skills, putting her near the center of historic world events.
Nothing had really fundamentally changed. And that tells me we’re just waiting for the next crisis. Sadly, history sometimes does repeat itself.

The first was when William Casey, Director of Central Intelligence from 1981 to 1987, created the proactive, interagency Counterterrorist Center. As an analyst specializing in Iraq, Iran, and the Gulf, Yaphe played an important role during the terrorist attacks by Hezbollah, including its 1983 bombing of the U.S. embassy in Beirut (when her office chief was killed) and, later, when it kidnapped Americans and Europeans in Lebanon and held them hostage. For three full years, she provided political analysis of the unfolding events.

“It was very exciting [because] these issues were high on the agenda of the administration. Ronald Reagan cared very much about the fate of the hostages and about Iranian-sponsored terrorist groups.”

Her second big opportunity at the CIA came as a result of the Iraq-Kuwait war in 1990 when, as the senior political analyst on Iraq, she prepared analysis for President George H.W. Bush and his advisors. She received the Intelligence Medal of Commendation for her work.

A few years later, another door opened—this one at the National Defense University in Washington, D.C. Yaphe spent a sabbatical working at the NDU’s Institute for National Strategic Studies (INSS), an independent think tank that prepares longer range research for Defense Department policy analysts and the Joint Staff.
“I liked it so much I wanted to stay. It was a time [1995] when things began to change dramatically at the Agency and in the practice of intelligence.

“Nothing would ever be as interesting or as challenging as what I had done, so I resigned from the CIA in 1999 and never looked back. I miss the people but not the stress. I think [the CIA] has the smartest people in government. It had a reputation for clear thinking and independent judgments—ones clearly separated from policy advocacy—and it is still more informal than most government bureaucracies.”

About September 11

On September 11, two years after leaving the CIA, Judith Yaphe watched the Pentagon burn from her office window at the National Defense University.

“I felt as I were watching the end of the world as we knew it. I was not prepared for the mistakes that allowed it to happen.” In 2003, she was called to testify before the 9/11 Commission as a professional analyst and expert on Iraq. The experience was cathartic, she says.

“At the same time, it was dismaying to realize how little the intelligence agencies had learned after fifteen years of what was supposed to be collaborative work. ‘What do you mean different parts of the [intelligence] community don’t talk to each other? What do you mean they’re not sharing intelligence?’

“But, nothing had changed in the culture. That was very frustrating. Nothing had really fundamentally changed. And that tells me we’re just waiting for the next crisis. Sadly, history sometimes does repeat itself.”

Yaphe, whose testimony before the 9/11 Commission debunked the Bush administration’s theory that Saddam Hussein was connected to both al Qaeda and Usama bin Ladin, is pleased that “the current administration’s theory that Saddam Hussein was connected to both al Qaeda and Usama bin Ladin, is pleased that ‘the current administration has shown a greater ability to deal with issues and not to react visceraally or automatically.”

A View of the Future

That does not mean Judith Yaphe sees a lower threat level these days than she did in 2001 when she wrote The Middle East in 2015: The Impact of Regional Trends on U.S. Strategic Planning. “The point of the book was to look ahead,” she points out.

“At the time, there were worries about the growth of religious and nationalist extremism. What I see now is more disturbing.”

So does she think we’ll see more terrorist attacks? Her simple answer is “sure.”

“Three lessons I learned as an intelligence analyst: never assume anything; never say ‘never’; and keep it simple. Intelligence is more art than science. In the end, you rarely have a smoking gun. Estimating future behaviors based on limited evidence, questionable methods, or biased sources is a distinct art form. Academics hate to do it; historians and political scientists never have enough information. But intelligence analysts must do it.

“I believe my education as a student of history at Moravian, the mentorship of a wise person—Dr. Dan Gilbert—and his demands for intellectual honesty, critical thinking, and clear writing prepared me for two interesting professions. Both relied on skills we learned in the Honors Program.”

Today Judith Yaphe, who once worried that accepting a job at the CIA would mean she’d never teach at a university, is not only a distinguished research fellow at the Institute for National Strategic Studies and Honors graduate in history, but also adjunct professor at George Washington University’s Elliott School of International Affairs. (Along the way, she also taught at Goucher College and the University of Illinois.)

Clearly, however, her heart belongs to Moravian. She often mentions her mentor and Honors advisor, Daniel Gilbert, with high praise. Asked if, after all that she has done and still does, she ever wishes she had stayed at Moravian, Yaphe answers without hesitation, “In my heart, yes, I want to go back, I always do. But I will always hear Dan’s voice in my ear: ‘You don’t want to stay here; go and do something out there.’ He was a brilliant teacher but more importantly, he was right. I don’t regret anything I’ve done, which is a good thing to be able to say.”

*A Celebration of Honors

On April 10, Honors Program alumni returned to Moravian College to celebrate the 50th anniversary of the program. A dinner in Peter Hall was followed by a Wind Ensemble performance in Foy Hall. Judith Share Yaphe ’66, distinguished research fellow at the Institute for National Strategic Studies and Honors graduate in history, presented the keynote address. After completing her Honors project, “The Politics of Vacillation: American Policy toward Palestine” advised by Daniel R. Gilbert Sr., professor emeritus of history, Yaphe obtained her Ph.D. in Middle East history from the University of Illinois, then became one of the CIA’s top political analysts.

John Greenya is a Washington, D.C.-based writer and author; his work has appeared in the New York Times, the Washington Post, the New Republic, and other publications.
Collier Hall of Science—the center of academic life for thousands of Moravian science majors and their professors since its construction in 1970—soon could take a bold new form. Concept drawings for an enlarged, state-of-the-art facility have been presented and refined by Holabird & Root, an award-winning architectural design firm, and a campaign has begun to transform the vision into reality for the next generation of Moravian physicians, biologists, chemists, physicists, and geologists.

Changing academic needs, new building codes, and aging mechanical systems make the renovations a necessity. Through an interactive process that included faculty members, administrators, and construction manager Alvin H. Butz, Inc., Holabird & Root developed a concept consistent with the Moravian natural science division’s reputation for excellence and vision for the future, said Dean Gordon Weil, vice president for academic affairs. Costs have been considered carefully, too. The proposed new facility would be constructed around the existing one, and renovations would occur in two phases: a short-term phase for critical repairs, and a longer-term phase for new research, classroom, and office space.
Incorporating sustainable systems and practices, the reconfigured and expanded Hall of Science would feature additional computer lab space, classrooms designed for student interaction, tiered lecture halls, and research areas filled with natural light.

This rendering represents one of several proposed designs.

...a concept consistent with the Moravian natural science division’s reputation for excellence and vision for the future.
Changing Perspectives on Health Care

The Alumni Association’s spring 2010 Lifelong Learning workshop (“Living Healthy, Well-thy, and Wise”) could not have been more timely. On Saturday, March 20—the day before the U.S. House of Representatives passed legislation to reform health care—about forty Moravian alumni gathered on campus for a day of thought-provoking and informative sessions on health care economics and availability, optimizing health, medical education, and more.

With expert opinions offered from a variety of perspectives, the interactive sessions encouraged attendees to take a closer look at the often complex issues related to health care in America, and how they affect individuals and society. Throughout the day, alumni attendees joined the conversation to ask questions and share their own range of opinions; all agreed the day was interesting and informative.

Presenters and panelists included alumni J. P. Orlando ’96, director of medical education development for Lehigh Valley Health Network; Steve Vanya ’79, psychiatric caseworker, LVHN; Chris Miller ’94, managing director of Freedom Physical Therapy; Brian Corvino ’02, partner, Pharmanstrat; and Kelly Brooks ’05, associate chaplain for Good Shepherd Rehabilitation Network. Moravian faculty members Michelle Schmidt, associate professor of psychology, and Peter von Allmen, professor of economics, also presented sessions. Jaime Marks Corvino ’04 chairs the Lifelong Learning committee, organizers of the event.

“What we call now call ‘health care’ is actually based on disease care,” said Georgia Tetlow, M.D., during the lunchtime panel discussion “Perspectives from Health Care Practitioners.” “True health care begins with self-care—it requires constant learning, and it is not just physical, but also mental and spiritual.”

Nominations for Alumni Awards

The Alumni Association Board of Directors is proud of Moravian’s outstanding alumni and recognizes alumni achievement and service to the institution with the following awards: the Comenius Alumni Award, the Benigna Education Award, the Young Alumni Achievement Award, the Haupert Humanitarian Award and the Medallion of Merit. You are encouraged to submit a nomination for these awards. For a full description of the awards and to submit an online nomination please go to www.moravian.edu/alumni/nomination. We look forward to receiving the names of many exceptional alumni.

Correction: A photo in the Fall 2009 issue had an incorrect photo credit. The photo of the freshman picnic held at the home of Rick Kingston ’77 last summer was taken by Gregory M. Fota ’69. We regret the error.

Nicole Sabaliauskas ’04

Just six years after graduating from Moravian with a degree in biology with Honors, Nicole Sabaliauskas has made the pages of one of the world’s most prestigious science journals, Science (March 19, 2010). Sabaliauskas, who is now a Ph.D. candidate in neuroscience at New York University, is co-lead author of an article that helps explain why learning is more difficult during puberty.

The researchers’ goal is not to create a magic pill that will make teenagers smarter, said Sabaliauskas, but the information “could be used to mitigate certain learning disabilities, such as dyslexia, that have onset at puberty, or to bolster learning for those with performance anxiety.”
Networking Skills for Professionals

At the January Alumni Association workshop “Building Ties that Bind: Networking Skills for Professionals,” alumni shared stories and learned new networking techniques from professional development guru Bill Rambo of Rambo+ Associates. Rambo offered expert advice about how to network successfully to obtain a new position or to succeed with an existing one. Putting his practices into action, Rambo worked the room, engaging each audience member and providing simple yet profound principles for more effective networking. Workshop participants caught on quickly, helping each other by contributing resources and tips.

Professional development expert Bill Rambo (top) offered valuable networking advice at an alumni workshop in January. Alumni exchanged ideas and made new professional connections at the event.

What’s Brewing in Boston is the latest book for young readers by Scott Morro ’95. Travel back in time with Andy and Archie, sons of a Moravian College art professor. Stuck in a museum during a blizzard, the boys find themselves face to face with the real-life Sam Adams, Paul Revere, John Hancock, and other patriots. Available at PublishAmerica.com.

The Power of Leveraging the Charitable Remainder Trust: Your Secret Weapon against the War on Wealth by Daniel Nigito ’78 is a practical guide for controlling your tax destiny. Nigito, a financial services expert, explains how to use two financial instruments—the charitable remainder trust and cash value life insurance—to make taxes work for you. Available at Amazon.com.

SAVE THE DATE!
FOR DETAILS OR REGISTRATION, CONTACT THE ALUMNI HOUSE:
610 861-1366 OR WWW.MORAVIAN.EDU/ALUMNI.

April 23
Hound Hour in Morristown, N.J.

April 27
Scholarship Reception by invitation only*

April 30
Founder’s Day

May 10
Golf Classic

May 12
Reception for Comenius Center graduates

May 14
Senior Breakfast

May 21-22
Alumni Weekend reception for Comenius and Cornerstone Societies by invitation only*

* For information, call 610 861-1366

FOR CHAPTER NEWS, VISIT WWW.MORAVIAN.EDU/ALUMNI/CLUBS.

Has your book been published recently? Please share the good news; write vbingham@moravian.edu.
Anna Heim ’10 Sets New National Record

Greyhound track and field teams continue to impress with outstanding individual and team achievements. Senior Anna Heim won the 2010 NCAA Division III Indoor National Championship in the pole vault in March, with an NCAA Division III record height of 4.16 meters (13 feet, 7¾ inches) to become the eleventh NCAA individual champion in Moravian College history. Heim is the first Greyhound female to win a national title since Christina Scherwin won back-to-back titles in the javelin in 2002 and 2003. Heim also earned All-America honors for the fifth time in seven trips to the NCAA Track and Field Championships.

“I try not to think about what height I’m trying to make,” said Heim. “I just concentrate on the things I can control, especially on the runway and the speed I hit the vault.” Heim’s goal for the outdoor season is to clear 14 feet.

Mary Beth Spirk Coach of the Year

Head women’s basketball coach Mary Beth Spirk was recognized as the 2010 Coach of the Year by Russell Athletic/Women’s Basketball Coaches Association Division III Region 4. Spirk guided the Greyhounds to a 25-3 mark this season, with a 14-0 record in the Landmark Conference, to earn the first Landmark Conference title for Moravian and the program’s eighth NCAA Division III Tournament berth. In twenty-three seasons as Moravian’s coach, Spirk has led the program to a 434-198 record, seven NCAA Tournament appearances (including a berth in the 1992 National Championship game), three conference titles, and an ECAC South Championship in 2007.

2010 Last Season for Intercollegiate Lacrosse

Moravian College will discontinue its men’s and women’s lacrosse programs at the NCAA Division III intercollegiate level at the end of the spring 2010 season. The difficult decision was part of a College initiative to remain competitive and affordable for students, despite ongoing financial challenges spurred by the national economy. The decision was made after a comprehensive review process, which considered the history, competitive success, budget implications, and other criteria of Moravian’s athletic programs. “By focusing on our existing programs, we will remain highly competitive and provide a quality experience for our student athletes,” said President Thomforde.
Marriages
2007 Mindy Muffley and Nathaniel Tkach, September 27, 2008.
2002 a son, Micah, June 12, 2009.
Bill, a son, Aiden John, December 19, 2009.
a daughter, Georgia Rose, Ezerett Grey, November 12, 2009.
a son, Adam Michael, April 11, 2006.

Deaths
Donald Canfield, November 12, 2009.
Carl Roger Symons Sr., November 12, 2009.
Catherine “Kit” Dieruff Watt, January 22, 2010.
Sr. Felicia Tanzella, January 22, 2010.
1939 Catherine “Kit” Dieruff Watt, November 6, 2009.
I. Howard Chadwick, November 11, 2009.
Phyllis Iobst Hill, February 27, 2010.
Robert Behr, October 6, 2009.

Births
2004 Shannon Clay Mohap and Jason, a son, Dane Kalman, October 13, 2009.
Amy Lawrence Neiderer and Benjamin, a son, Micah, June 12, 2009.
Erin LaBar-Curtolo and Phil, a daughter, Talia Denise, November 17, 2009.
Amanda Morgenstern Duane and Bill, a son, Aidan John, December 15, 2009.
2001 Kate Bugera Hoffman and Brad, a daughter, Georgia Rose, March 10, 2009.
Rebekah Worthington Massey and Jim, a son, Grant Issac, September 19, 2009.
Allison Hartvelt and Dustin Levy ’01, twin sons, Hayden Brett and Jack Brett, June 12, 2009.
Daniela Grillo Egidi and Enzo, a son, Massimo Domenico, May 19, 2008.
Janine Misevich Rossi and Peter, a son, Joseph Peter, December 14, 2007.
Mark Price and Carrie, a son, Nathan Keith, December 9, 2009.
Megan Weston Pennisi and Buddy, a daughter, Samantha, September 19, 2009.
Mary Mills Grigoruk and Michael Grigoruk, a son, Adam Michael, April 11, 2006.

Have you heard?
Here are just a few of the latest updates from your classmates. Read more online at www.moravian.edu/classnotes. While you’re there, share your news!

2009 Michael Susiec will marry Kristen Zurek in June in Shavertown, Pa. The couple will honeymoon in Antigua.
1986 Alice A. Kresge was named program director of surgical technology at the McCann School of Business and Technology.
1973 Kathleen Figlear Malu has been named a Fulbright Scholar. She is an associate professor at William Paterson University.
1968 Robert Kichline retired after 30 years as a Spanish teacher with the Indian River School District in southern Delaware. He now works part-time as a court interpreter.
1962 Sylvia Rubens, Karen Kaprielian Jacob, and Connie Platt Boos gathered for a girls’ weekend at beautiful Useppa Island on Florida’s west coast.
1952 Dr. Verna Lunghofer Cowin and her husband, Paul, received a lifetime achievement award from the Society of Pennsylvania Archeology in May 2009.
1932 Kathryn Schneider Rahn celebrated her 100th birthday on December 23. Jim McCruden ’61, Monk Morelli ’59, and Bertie Knisely ’69 visited Kathryn in Lansdale and presented her with a framed photo of her 1932 basketball team. (Kathryn is on the far right in the back row.)

Read more Class Notes online at www.moravian.edu/classnotes.
Aesop ILLUSTRATED

John Amos Comenius, creator of the first illustrated book for children, would be pleased. A new children’s book, *Fabulae Aesopi in Sermonem Latinum Conversae*, by Latin major Guy Martin Ercolano ’11, presents Aesop’s fables in simple Latin accompanied by Ercolano’s own illustrations. Classical writings sometimes intimidate readers, but “the language and grammar of this book can be easily grasped,” says Ercolano, who plans to enter graduate school for classical studies. “Children benefit from learning Latin because it is a bridge to other languages, improves grammar, and encourages logical thinking.” Ercolano developed the idea for the book as an independent study with Dennis Glew, professor of classics and history, who also served as the book’s editor. Ercolano hopes to re-publish the books in contemporary English this fall. (Available from Xlibris.com.)
“The NINDS study shows the connection between the brain and altruistic behavior,” says Dr. Lisa Hahn Egan ’00, a clinical neuropsychologist. “It’s not surprising that our brain’s pleasure center and other key areas respond when we give to others, whether time or money.”

As Moravian Fund donors, Lisa and her husband Alex Egan ’01 have experienced the giving phenomenon themselves. Their gifts to the Moravian Fund help Moravian College students realize their dreams today. Annual gifts, no matter the size, have an immediate impact, shaping the experience of nearly every Moravian undergraduate. Your gift will expand student research opportunities, aid faculty members’ development, enhance facilities, and improve technology.

A recent study conducted by the National Institute of Neurological Disorders and Strokes confirms what many of us already know: giving makes you feel good.

Give to Feel Good

Give to the Moravian Fund today.

It’s easy on our secure web site www.moravian.edu—just click on Giving to Moravian.

Or call 800 429-9437 to give by credit card.

(A reminder: our fund year ends June 30, 2010.)
Connor Skutches ’11, an environmental studies major, takes in the view from Ocean Peak Corner after completing a 15-kilometer climb on the Routeburn Track near Queenstown, New Zealand. “As I sat on the edge, I could see the beautiful, snowy Darran Mountains. To the north [right in photo], I could see all the way to the Tasman Sea,” he wrote. “It was a great reward for a long, exhausting hike.”

During his spring semester abroad, Skutches studied the relationship between people and the environment, as well as the culture of the native New Zealand people, the Maori.