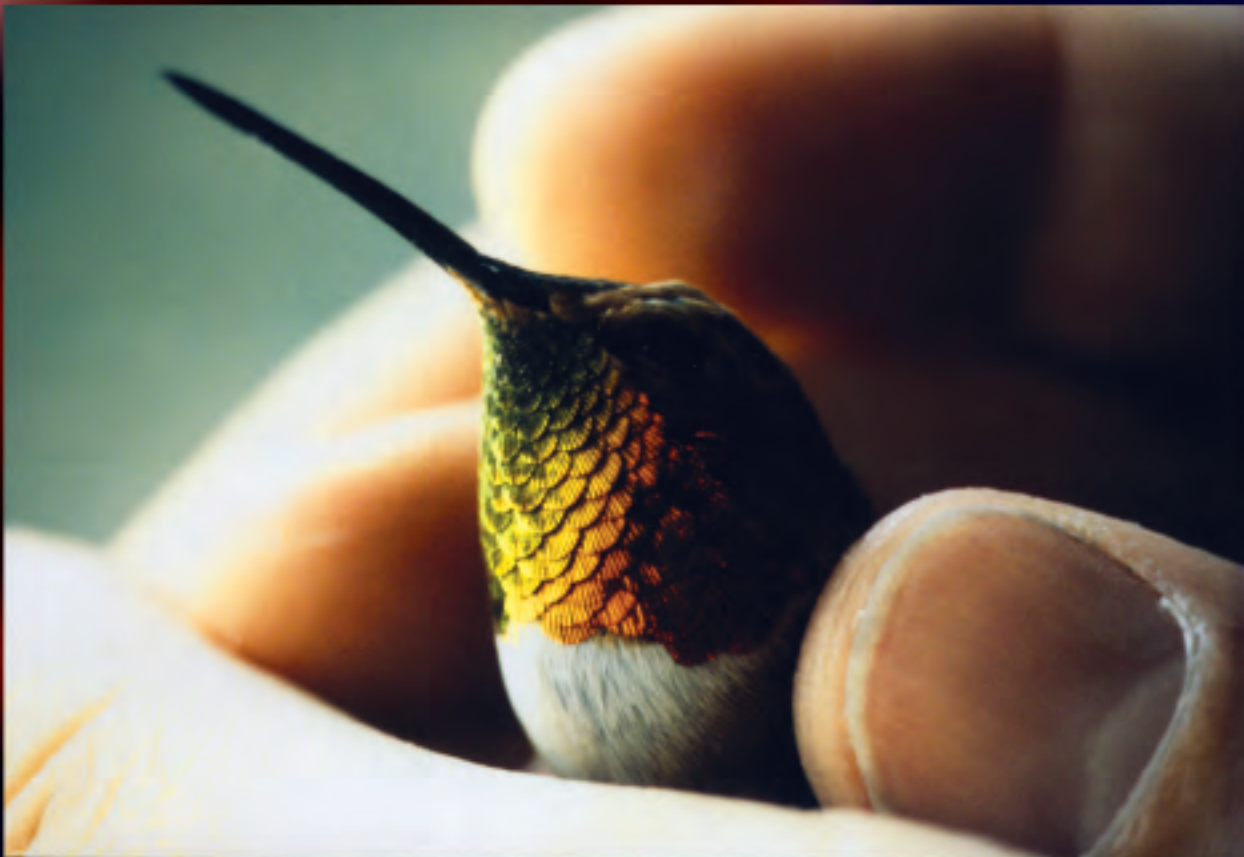


G E O R G E F O X

Journal



Flight of the Hummingbird

Uncovering secrets of the world's smallest birds, page 10

GEORGE FOX

Journal

Fall 2005 | Volume 1 | Number 3



Masters of the air | 10

by Sean Patterson | Biology professor Don Powers and colleagues reveal the mystery of hummingbird flight – and it flies in the face of conventional wisdom.

The emerging church | 14

by Tamara Cissna | Author Len Sweet addresses how new times call for new approaches to applying Christ's teachings in the postmodern culture.

Tech Daze | 18

by Rob Felton | Technology is as much a part of college life today as term papers, pizza, and all-nighters.

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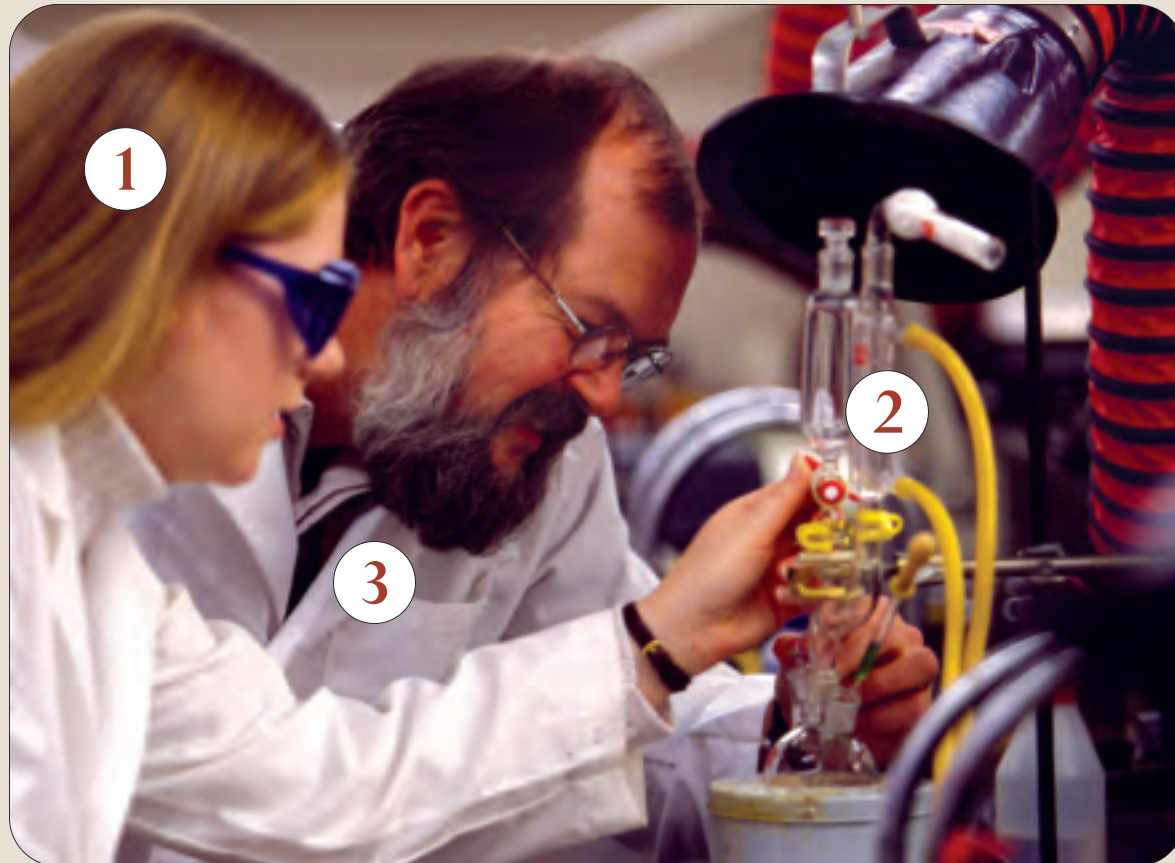
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In candlelit sanctuaries and simple living rooms, faith communities seek creative forms of worship and a strong relational dynamic. PAGE 14

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ON THE COVER:
A bird in the hand... is worth a lifetime of research
COVER PHOTO COURTESY DON POWERS



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Readers Forum

>> I worked with Tom Head for seven years (95-02) while at Fox and found him to be a compassionate and reasonable person, both of which are apparent in his essay entitled "Does Social Security have a future?" (Spring 2005).

On the compassionate side, he presents social security as an insurance plan that complements what retirees are able to save and what they may be entitled to through employer pension plans. We can't simply allow retirees and the disabled to rely on personal savings and employer pension plans or many people will suffer. Do we want to add retirees and the disabled to the embarrassing national tragedy of homelessness by reducing our commitment to social security as an insurance system?

Our deficit has grown dramatically and our representatives seem collectively incapable of the fiscal discipline we have historically treasured. Personal accounts would exacerbate this lack of discipline and cause the already ballooning deficit to grow dramatically.

Debate over personal accounts as part of social security creates a diversion: we avoid the fundamental flaw in our collective nature — we don't save enough. Savings and investment are vital, but so is an insurance scheme that serves as a safety net.

The safety net of social security has functioned well and can do so in the future if we can have the political will to adjust the actuarial assumptions needed to keep it solvent.

Asbjorn Osland, PhD
ASSOCIATE PROFESSOR OF BUSINESS,
SAN JOSE STATE UNIVERSITY

EDITOR'S NOTE: HURRICANE RESPONSE

In the wake of immeasurable loss and suffering, many in the George Fox community have asked what the university is doing to reach out to Hurricane Katrina victims. The following is a snapshot of what the formal responses have been and what students, faculty, and staff are doing to help:

Labor

In September, the university sponsored five team members traveling to Slidell, La., with Campus Crusade for Christ. The crew cleaned buildings to create living space for evacuees and cleared debris. "Our mission is to serve these people with humble hearts," said team member Mandy Spotts, a sophomore psychology major, before leaving. "We just want to help give them hope."

In March, the campus ministries office plans to send students and staff to volunteer in the Gulf region as one of its annual Spring Serve trips.

Counseling

Karin Jordan traveled with Northwest Medical Teams to lend counseling and trauma support to hurricane victims in New Orleans. Jordan, chair of the Department of Counseling, spearheaded a school-supply drive through the School of Education

when she discovered children were returning to school without supplies or even changes of clothes.

Fund Raising

During a chapel service, students donated more than \$1,500. Contributions were divided between Northwest Medical Teams and affiliated institutions in the devastated region.

Prayers

The community held several prayer gatherings and created a prayer board for students to post their prayers, comments, and questions. Several chapel services featured the crisis.

Open Doors

George Fox stands ready to accept students unable to continue their studies at damaged campuses within the disaster area. The university will provide a semester of free tuition to any student from an institution unable to function because of the hurricane.

More info and photos: georgefox.edu/katrina

Mailbag

Please send letters to *Journal*, George Fox University, 414 N. Meridian St. #6069, Newberg, OR 97132, or e-mail us at journal@georgefox.edu. Letters may be edited for length and clarity. Please include an address and daytime phone number.



Charles and Rose Dempsey left behind their ruined Louisiana home with only the belongings that could fit in their pickup. The couple, who are in their 70s, expressed thanks to sophomore Mande Spotts (left) and Liz Clark (G05), for their assistance with the painful process of sorting belongings.

Communicating in the new culture



The emerging church is all around us. It is real and it is relevant.

In this issue, the *Journal* interviews Visiting Professor Leonard Sweet, who some call America's premier Christian futurist. He reports that emergent churches define themselves as being "incarnational, missional, and relational." I find it interesting that these same terms often define the current traditional undergraduate student at George Fox University. This discovery should not surprise us since many of our students come from these churches.

We must remember that both churches and George Fox University reflect what is happening in the larger culture around us. (And, both also change with the culture in which we live.) For me, this brings us to the heart of the matter: The whole point of George Fox University is to bring culture, education, and ministry into coherence with the Gospel of Jesus Christ. We must know what is normative and how to bring the historic gospel message to today's culture with relevance. George Fox Evangelical Seminary, for example, distinguishes itself by inviting people like Leonard Sweet to be an integral part of our Doctor of Ministry program. For traditional undergraduates, programming for chapel brings speakers from the "real world" — speakers who bring relevance to the campus. But most important, faculty at George Fox think continually about how best to make learning useful for today's student. They integrate their Christian faith with their disciplines, they bring important questions to the table in all courses, and they seek to provide the highest quality education.

The cultural context of traditional undergraduate students is a regular concern in all of higher education. Today's churches also need to be aware of the cultural context of their young people. The youth of today will be in charge of the church in a few decades. Is it the church's job to change the culture of its young people to fit the traditional mold, or is it more important to adapt how we "do church" for the sake of new generations? While our seminary deliberately is preparing professional ministers, all of George Fox University is preparing church leadership since, for the most part, our graduates are church people. The vast majority of them already are committed to church involvement when they arrive, and others make that commitment while they are students.

George Fox University is deeply involved in this generational concern from two perspectives: how to effectively educate each generation of students and how to prepare students to be effective church members and leaders — both professional and lay.

Dr. David Brandt
President

"We must bring the historic gospel message to today's culture with relevance."





Bruin Notes

Taking a step of faith

Sarah Thomas Baldwin joins George Fox as the new campus pastor

Sarah Baldwin begins her next “incredible adventure of faith” as the university’s new campus pastor this semester.

Baldwin, formerly adjunct professor of Christian ministries at Asbury College in Wilmore, Ky., and director of campus and guest relations at Asbury Theological Seminary, envisions helping George Fox students experience the university as a life-giving place, where wholeness and holiness are modeled.

“I am a pastor at the core of who I am,” she says. “At every angle, I have had tremendous opportunity to live into that call – in leadership, speaking, committee work, visioning. All have prepared me for the next step. I sense a stirring of God to be about new things for the kingdom, and I believe campus ministry lies at the center of this direction.”

Baldwin, 33, earned a master of divinity degree from Asbury Theological Seminary in 2001 and a bachelor’s degree in psychology from Asbury College in 1993. She has been a retreat, workshop, and chapel speaker, and has taken missions trips to Hong Kong, Thailand, Guatemala, and India.

At Asbury Theological Seminary, Baldwin helped organize major conferences, oversaw the expansion of the hospitality department, and led efforts of reconciliation in the areas of gender, race, and socioeconomic class. Since 2002, she taught at Asbury College, and from 1997 to 2001, she was a resident director for two residence halls at that school.



Sarah Baldwin was “the ideal candidate” to take on the responsibilities and challenges of being campus pastor, according to Brad Lau, vice president of student life. The interviewing committee admired her commitment to teaching Scripture and upholding the issues of justice.

Baldwin says she was attracted to George Fox because of its commitment to academic excellence, its emphasis on being global Christians, and the university’s integration of faith at every level. “I greatly respect the Quaker tradition and its emphasis on social justice, peace, and spiritual formation,” she says.

Even before she arrived at George Fox in August, Baldwin knew she was making

the right move.

“I have felt embraced and welcomed,” she said. “This community has given me added confirmation that this is the place God wants us.”

Baldwin and her husband, Clint, have a 5-year-old daughter, Madeline. Baldwin succeeds Gregg Lamm, campus pastor since 1991. He left to seek a church pastoral position in the region.

Three to get ready

Hard hats became the headgear of choice on campus this summer as the university began three construction projects totaling \$11.6 million.

Residence Hall

A 120-bed apartment-style residence hall for third- and fourth-year students will help alleviate the squeeze on campus housing.

The 40,150-square-foot building is being built on the northeast side of campus in the Wheeler Sports Center parking lot near University Hall. It will have 20 apartments, each with three bedrooms, a toilet room, a shower room, and a shared great room consisting of a kitchen, dining room, and living room. Each apartment will house six students. Every floor will include a small hearth area for student gatherings. The main floor will include a cafe, computer lab, and lounge.

Total project cost is estimated at \$7.4 million.

Hoover Renovation

The need for facilities for the new nursing program provided the impetus for a \$4.1 million expansion and renovation of Hoover Academic Building.

Construction began this summer on a 15,400-square-foot, two-story addition on the west side of the existing building. The addition will include two nursing labs, an observation room, a study area, an 82-seat lecture hall, 19 faculty offices, and a 900-square-foot art gallery. A raised atrium will mimic the nearby Ron Gregory Atrium. The addition is scheduled to be completed in May 2006.

A second phase will begin in the summer of 2006 with an internal and external



The new residence hall will increase on-campus housing capacity to 1,175 students. Completion is targeted for August 2006.

remodel of the existing building. The remodeled facility will include six classrooms, a 192-seat lecture hall, a computer lab, a computer classroom, 27 faculty offices, a conference room, a study area, and the Hoover-Hatfield library.

In addition to nursing, Hoover will house the undergraduate psychology, religion, and sociology/social work departments.

Outdoor Amphitheater

With students spearheading the project, George Fox broke ground on a 500-person amphitheater on the west slope of Hess Creek Canyon.

For several years, student government leaders have set aside funds for a significant project. This year's leaders decided to fund the majority of the \$130,000 amphitheater construction. Last winter, they presented amphitheater plans to the Newberg City Council and university administrators.

Grass-covered, six-foot-wide terraces will provide a semicircular bowl for theatrical, musical, residence life, academic, and chapel events. georgefox.edu/construction

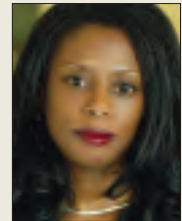


Associated Student Community vice-president Stefanie Philips at the amphitheater groundbreaking

New board members

The university's board of trustees added three new members. Joining were Brenda Dizer, a project manager for Intel; Deborah Martin, a community human services manager for the State of Oregon; and Steve Tatone, CEO of accounting firm AKT Services.

Dizer, a resident of Tigard, Ore., works for Intel's Oregon fabrication materials division in Hillsboro, Ore. She earned an MBA from George Fox in September of 2004.



Brenda Dizer

Martin lives in Portland and, in addition to her management duties with the Permanent Planning Unit of the state's Department of Human Services, has been a youth pastor at churches in the Portland area.



Deborah Martin

Tatone, of Salem, Ore., leads a company that specializes in serving public utilities, with offices in Oregon and India.



Steve Tatone

The 39-member board includes community members, civic and political leaders, business owners, and others.

Making the grade

George Fox recognizes top teaching and research with faculty achievement awards

Mark Terry Undergraduate Teaching

Last fall, art professor Mark Terry's colleagues taped signs with the word "no" inside his office. It was a vain attempt to stop him from adding more to his overloaded schedule.

"He's a defender and fighter for the arts," says Tim Timmerman, chair of the visual arts department. "He's doggedly charismatic about our department."

Last spring, Terry inspired his ceramics class to create more than 1,000 ceramic bowls for a fund-raising event to assist tsunami victims in Southeast Asia. More than \$11,000 was raised.

Terry recently built a wood-fired kiln for students and local artists. His anagama pottery recently was featured in an international exhibit.

Terry graduated from Willamette University, and earned a master's degree in interdisciplinary education at Western Oregon University.

Deb Worden Undergraduate Teaching

George Fox baseball players quickly learn they can't coast through a class taught by business professor Deb Worden. The petite and lively professor frequently moves them to the front. "She's very influential," David Peterson (G05) says. "She expects baseball players to get good grades in her classes."

Though Worden is one of the Bruins' biggest fans, baseball players don't get all her attention. "Deb will generously give students her time," says business professor Dirk Barram. "She'll go the extra mile to explain difficult course concepts."

Worden also is passionate about investment theory. Her recent research on Generation X investment behavior was published in the *Financial Analysts Journal* and the *Journal of Financial Planning*.

Worden earned a doctorate in economics from Purdue University.

Clark Campbell Graduate Teaching

Clark Campbell, director of clinical training and professor of psychology, occasionally arrives on campus on his motorcycle.

"He's something of a risk-taker and adventure-seeker," says Wayne Adams, director of the department of clinical psychology. "As a teacher, he's willing to go down roads others wouldn't think of and explore a range of topics in his classes."

Campbell consistently earns high evaluations from his students, and he's earning recognition off-campus. He became a fellow of the American Board of Professional Psychologists, a distinction held by just 10 percent of American psychologists.

Campbell earned his doctorate in clinical psychology from the Graduate School of Clinical Psychology at Western Seminary.



Clockwise from top: Mark Terry, Clark Campbell, Deb Worden, Paul Anderson

Paul Anderson Researcher of the Year

Paul Anderson, professor of biblical and Quaker studies, teaches at George Fox, but his research has led him across the globe.

In 1998-99, Anderson served as a visiting professor at Yale Divinity School. In 2004, he conducted study at Princeton Theological Seminary as a visiting scholar. He earned his doctorate in Scotland from Glasgow University.

Anderson regularly publishes articles on nonviolence, Quaker studies, and cognitive-critical approaches to studying the Bible.

"He's at the top of his game and has been there for several years," says Hank Helsabeck, dean of the School of Arts and Sciences.

Anderson received a \$300,000 Lilly Grant for a project designed to apply Quaker wisdom in decision making to unify Christian congregations regardless of church politics or organizational structure.

Engineering wins ABET

The university's engineering department received a boost in August with news that the Accreditation Board of Engineering and Technology, the national accreditation body of engineering, had approved the department's bid for accreditation.

George Fox is now one of only five universities in Oregon with ABET accredita-



tion. George Fox is also one of only 13 institutions in the Council for Christian Colleges & Universities to offer a four-year engineering program with ABET

accreditation. The CCCU has 105 members in North America and 71 affiliate institutions in 24 countries.

George Fox offers bachelor's degrees in mechanical and electrical engineering.

Back to school

Teacher education program helps immigrants meet Oregon credentials

Mavjuda Rabimova already had seven years of teacher training when she left her homeland of Tajikistan to teach elementary school students in Woodburn, Ore. Unfortunately, she didn't meet Oregon's teaching credential standards. So in order to teach here, she needed to go back to school herself.

George Fox, in partnership with The Oregon Quality Assurance in Teaching II Project, helped Rabimova realize her dream. Playing subcontractor of the OQAT II program, the George Fox School of Education has granted \$1,800 scholarships to 29 candidates willing to work in high-needs schools.

"There were cultural and language barriers when I started," Rabimova said. "But the people at George Fox really made a difference – not only in my life, but in the lives of my students."

Rabimova, a second-grade teacher at Woodburn's Heritage Elementary School,



reported that every one of her 19 students passed the state math test last year. Her class also performs plays each year – the first act spoken in Russian, the second in English.

"Woodburn, which has such a large population of English language learners, has really been the focus of our efforts with this program," says Marc Shelton, director of George Fox's Master of Education program and its OQAT II project director. "It's a win-win: we're assisting the high-needs schools and those in need of licensure."

Seminary losses

George Fox University has lost two men significant in the history of its seminary. Former deans Arthur Climenhaga and James Field died just over a month apart.

Climenhaga, who was academic dean in the 1970s, died suddenly April 25 at the age of 88 while on a day hike in a park in West Virginia. He and his wife, Lona, were living in Pennsylvania.

Field, vice president and dean of the seminary in the 1980s, died May 28 in Calgary, Alberta, Canada. He is survived by his wife, Marj.

In the News

George Fox University is 18th in its category in this year's ranking of "America's Best Colleges" by *U.S. News & World Report* magazine. Maintaining the same overall score it had a year ago, the university continues in the top tier of the



"Best Universities — Master's" west region category. Sixty-five colleges and universities are selected in the top group which this year combines the first and second tiers.

Additionally, the *Princeton Review* again named George Fox University as one of its "Best in the West" selections. The university is one of 122 colleges and universities listed from 15 western states. The *Princeton Review* rankings consider academics, quality of life, admissions selectivity, and financial aid. George Fox students were invited to participate in an online survey hosted by the magazine questioning them on each category hosted by the magazine.

Profesora excelente

Viki Defferding, assistant professor of Spanish, was named 2005 Ray Verzasconi Pacific Northwest Postsecondary Teacher



of the Year by the Pacific Northwest Council of Foreign Language Teachers.

Defferding, a professor at

George Fox since 1989, has led study abroad trips to eight countries in Central and South America. She has been an interpreter, teacher, and medical volunteer in Mexico with Mexican Medical Ministries and in Honduras, Costa Rica, and Portugal with local churches.

Going for the Green

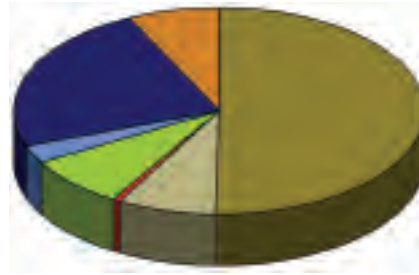
The university named Carol Green the first dean of the School of Professional Studies. Green comes from Wayland Baptist University-



Clovis Campus in New Mexico, where she was dean since 1997. Under her leadership, enrollment at the Clovis

campus grew from 15 to 250.

The School of Professional Studies now has 300 students and offers five undergraduate degree-completion programs for adults at sites in Portland, Salem, and Boise, Idaho. A master's-level program is offered in Boise. Night and weekend courses are designed to meet the needs and learning styles of working adults.



	Students	Pct.
Undergraduate, traditional	1,616	50%
School of Professional Studies, undergraduate	249	8%
School of Professional Studies, graduate	20	1%
George Fox Evangelical Seminary	252	8%
Doctor of Clinical Psychology	94	3%
School of Education, graduate	746	23%
School of Management, graduate	233	7%

Still growing...

George Fox enrolled 3,210 students this fall, a six percent increase from last year and the university's 19th consecutive year of growth. Enrollment has grown every year since 1986, when 549 students attended. The biggest gain came in the traditional undergraduate program where this year's record freshman class (457) was 15 percent larger than last year's record freshman class (396).

Full house

The largest freshman class in George Fox history sent campus staff scrambling to find housing this fall. With more than 450 freshmen arriving on campus, living quarters got tight. Student life staff said they reached 98 percent of capacity.

While most new students are from the Northwest, Executive Director of Admissions Dale Seipp said the university saw an increase in students from outside the region. This year's freshmen come from 19 states and five countries. Sixteen percent are from non-Caucasian ethnic backgrounds. They come with an average high school grade point average of 3.6 and SAT score of 1,110. Seventy-five percent are from public high schools, 22 percent graduated from private high schools and 3 percent were home schooled. The majors most popular among freshmen are business, elementary education, biology, nursing, and engineering.

Relief is on the way for crowded students. Some will be able to move into a new residence hall (see story page 5) next fall.

The doctorate is in

The School of Management this year added an executive MBA track and a doctoral program. The executive MBA program complements the school's existing professional track, enabling senior-level managers to engage in applicable classroom discussion, travel abroad to gain real-world experience, and participate in community consulting projects that exemplify the program's commitment to service.

Also new in May is George Fox's Doctor of Management program, designed to prepare managers for service in business, non-

profit, and public-sector organizations. The curriculum is collaborative, faith-based, service-oriented, and internationally attuned. Candidates for the program include executives seeking continuing education, consultants and trainers, and those interested in serving as faculty members at colleges and universities.

Both new programs will help the School of Management better fulfill its mission "to develop promising leaders and managers to be servants for the world," says Wes Balda, school dean. georgefox.edu/som

Sports roundup

Softball

New coach sparks improvement

Under first-year head coach Mark Vergets (below), the Bruins tripled their number of



wins from the year before in posting a 12-25 record. George Fox, with only one senior, finished seventh in the Northwest Conference (NWC).

Center fielder Cassie Halvorson (Jr., Hillsboro, Ore.) led the Bruins with a .289 batting average and posted the third-longest streak of consecutive at-bats without striking out (186) in NCAA Division III history. She was a First Team All-Conference selection and made the ESPN The Magazine/CoSIDA College Division Academic All-District VIII First Team.



Tennis

Transfer leads young team

Transfer Tyson Hunter (So., Jacksonville, Ore., above) made an immediate impact upon the Bruins, posting a 10-4 record at No. 1 singles. He earned NWC First Team honors.

The team, composed entirely of freshmen and sophomores, finished 4-12.

Baseball

Bruins claim conference title

One year after winning the 2004 NCAA Division III national championship, George Fox followed up with another record-breaking season.

The Bruins won a share of their fourth consecutive NWC title – the team's seventh in 10 years under Coach Pat Bailey. Despite a record-tying 32-12 overall record, George Fox did not receive a berth in the regional playoffs.

The Bruins did leave their mark on the national record book, setting a Div. III record for fielding average (.976).

Designated hitter/pitcher Derrick Jones (Jr., Forest Grove, Ore., above) ranked fourth



nationally in RBI per game (1.47) and 11th in wins (9), earning

First Team All-West Region and First Team All-America honors as a utility player. Second baseman C.R. Braniff (Jr., Hillsboro, Ore.) and shortstop David Peterson (Sr., Aloha, Ore.) were Second Team All-Region, while center fielder Drew Johnson (So., New Plymouth, Idaho) and left fielder Daniel Downs (So., Kirkland, Wash.) were Third Team All-Region. Jones, Braniff, Peterson, and Johnson made First Team All-Conference, with Jones earning NWC Co-Pitcher of the Year honors.

Bailey was named Coach of the Year by the Portland area chapter of the Fellowship of Christian Athletes.

Track and field

An All-American quartet

Four George Fox athletes earned All-America honors as the Bruin men finished 17th and the women 32nd at the NCAA Division III National Championships in Waverly, Iowa.

Michelle Forbes (Sr., Jackson, Wyo.) took second place in the national women's high jump by clearing 5 feet, 8 inches – the second-best mark in school history. Forbes was the NWC high jump champion and took second in the heptathlon. She was named to the ESPN The Magazine/CoSIDA College Division Academic All-District VIII and Academic All-America first teams.

For more sports information, go to georgefox.edu/athletics

In the men's nationals, Ben Dillow (So., San Diego, Calif.) placed second in the decathlon, Matt Gassaway (Sr., Washougal, Wash.) was third in the javelin, and Seth Harris (So., Boise, Idaho) came in sixth in the 400-meter hurdles. Dillow was All-

NWC in the high jump (second), pole vault (third), and 4x400 meter relay (second). Gassaway won the conference javelin title, and Harris ran on the runner-up 4x100 relay.

Lindsey Blankenship (So., Washtucna, Wash.) won the NWC women's hammer, setting a George Fox record (164-5), and Whitney Kolb (Fr., Jefferson, Ore.) claimed the conference triple jump title.

BY SEAN PATTERSON SPATTERSON@GEORGEFOX.EDU

Masters of the Air

Don Powers hummingbird research lands in the journal *Nature*



Using lasers, olive oil, a wind tunnel, and advanced imaging technology designed originally for engineers, biology professor Don Powers and his colleagues solved a mystery last spring.

Their research, in short, redefines how hummingbirds fly.

The scientists — Powers, Douglas Warrick from Oregon State University, and Bret Tobalske of the University of Portland — measured hummingbirds' flight patterns last May. Their data disproved the prevailing hypothesis that hummingbirds' flight is more akin to insects than birds. The results were published in the June 23, 2005, issue of *Nature*, the preeminent international journal of science.

Scientific breakthrough

For decades, the scientific community hypothesized that hummingbirds flew more like insects than birds because of their hovering ability and similar wing motion. "Our paper clearly shows this is not the case. Our research will rewrite the textbooks," says Powers, chair of the Department of Biology and Chemistry.

In reality, when it comes to staying airborne, hummingbirds' flight is halfway between birds and insects. Birds get all their lift from the downstroke of their wings, and insects get equal amounts of lift from both the downstroke and upstroke. Hummingbirds, by contrast, get about 75 percent of their lift from their wings' downstroke and the remaining 25 percent from the upstroke.

"This discovery is the pinnacle for me professionally," says Powers, who is one of only a handful of researchers in the country dedicated to the study of hummingbirds. "I don't know what else we could discover about hummingbird flight that will be as big as this."

To track the birds' hovering mechanics, Powers and his colleagues used a sophisticated imaging technique, digital particle imaging velocimetry. While the hummingbirds hovered in a wind tunnel misted with microscopic droplets of olive oil, the researchers shot a computer-equipped laser at the birds. As the wing beats caused the air to circulate — and the oil particles to move — digital images were taken millionths of a second apart, allowing the scientists to record the timing, location, and intensity of lift production

Using a sophisticated digital imaging technique, Don Powers and fellow scientists determined the aerodynamics of hummingbird flight in May, disproving longstanding theories.



Previous experiments on how the birds stayed aloft relied on high-speed video equipment that could not fully reveal the underlying aerodynamics.

Like insects, hummingbirds can invert their wings, turning them upside down during their upstroke. But hummingbird wings have bones and feathers, so there are limitations on how far they can move structurally toward an insect model, Powers says.

"For years, the dogma had been that when hummingbirds inverted their wings they continued to produce lift," says Powers, who earned a doctorate in physiological ecology at the University of California, Davis, in 1989. "There was also circumstantial evidence that suggested their up and down strokes were symmetrical. If you were to read a book on hummingbird hovering, that's what it would tell you."

The new research findings may reverberate beyond avian sci-

ence. Igor Sikorsky, inventor of the helicopter, considered the flight of hummingbirds in the design process of his rotary-winged aircraft. It would not be surprising, then, if this information inspires new ways to think about the process of flight.

At the same time, Powers can't help but see the humor in the study's dependence on olive oil — "something you go down to Safeway to buy," he chuckles.

Chance encounter

Powers originally planned to study marine invertebrates when he began pursuit of a master's degree in biology at San Diego State in 1979. But upon arrival, Powers discovered that "everyone was studying the subject," as he puts it, and he wanted to do something different.

What did interest him was avian science — a fascination first ignited during bird walks in his native Southern California when he was young. "I still approach science like a child," he comments. "If I didn't, it would just be a job."

At the suggestion of his advisor, Powers visited the library to research birds. The first thing he pulled from the shelf was an ecology journal featuring hummingbirds. He didn't need to read more; he knew right then what he would specialize in.

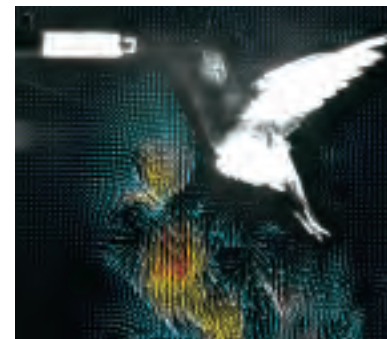
"It was one of those fortunate decisions because if I had decided to study chickens or pigeons, I would not have the same professional stature that I have now," Powers says. "There are a lot of people who study chickens and pigeons. Only a handful have made a career out of studying hummingbird biology."

As one colleague told him, Powers has put George Fox on the map in the field

of physiological ecology. He has published more than 20 papers on the birds and makes regular pilgrimages to feeding grounds in Arizona, where he conducts field studies on everything from the birds' energy-conservation strategy to this summer's evaluation of the energy costs of hovering. To collect data for this study, Powers set up a feeder equipped with a respiratory mask, allowing him to measure the birds' metabolic rate as they hovered.

Unending quest

Ultimately, Powers is intrigued by the birds' physiology. Of special interest is the hummingbirds' use of torpor, a hibernation-like state that helps them conserve energy. The same bird with a heart rate of 1,200 beats per minute during exercise can slow the pace to fewer than 10 beats a minute at night.



Left: Kelly James. Right: courtesy Douglas Warrick. Far right: courtesy Don Powers



Don Powers and his colleagues placed hummingbirds in a wind tunnel seeded with droplets of olive oil, which were illuminated with pulses of light, to study their flight (far left). He evaluates the birds' metabolic rate by equipping feeders with respiratory masks (left).

While other birds use the tactic, hummingbirds' use of it is perhaps the most pronounced. Powers' lab studies have revealed that hummingbirds with easy access to food during the day often don't go into torpor at night. Conversely, birds that have to fight for food — those that expend more energy and, consequently, don't store as much fat — use torpor more frequently.

There is one dilemma with torpor studies: In the wild, the birds are impossible to find at night. "The way to solve that problem would be to use radio transmitters, but they haven't made something small enough to put on a hummingbird yet," Powers says. "If they ever do that, there's going to be an explosion of papers on hummingbird torpor."

It's that element — the many unan-

swered questions — that drives him. "I tell my students that every time you walk through a door, there are 10 more waiting to be unlocked," says Powers, who teaches courses in ornithology, ecology, animal physiology, and non-majors biology.

"There's a lot I don't know about hummingbirds. Just look at the whole thing with hovering flight. Everyone thought they had it all figured out. Then, in three weeks of data collection, we undid all that. Technology has allowed us to dive into areas that couldn't be explored before."

Questions remain about the birds' mating rituals, migration patterns, eating habits, and water regulation. Of particular intrigue to Powers is the fact these tiny birds travel great distances every

year: The rufous, the most common species in Oregon, migrates from Mexico to as far north as Alaska and back again.

How do they find their way? How do they store enough energy for the migration?

Amid the questions, one thing is certain — hummingbirds fill an ecological niche: As nectarivores — animals that feed on flower nectar — they serve as important flower pollinators in the Western Hemisphere. In the Eastern Hemisphere, the sunbird, with the head of a hummingbird and body of a sparrow, is one of a few other bird groups that fill that role.

The development of hummingbirds in the Western Hemisphere points to natural selection, the adaptation of organisms to adjust to a particular environment, Powers says. "There were plants that needed to be pollinated and birds that needed a place to exploit for food while minimizing competition and, voila, a hummingbird developed out of that."

Such an intricate process points to the brilliance of the creator. "There is nothing that illustrates intelligent design better than the construction of organisms that are capable of shaping themselves to function successfully in complex environments that are also ever-changing," he says. **GFJ**

Hummingbirds: Fast Facts

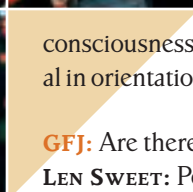
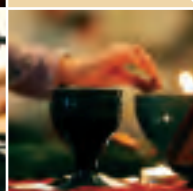
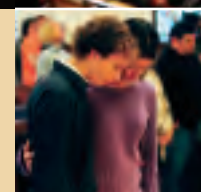
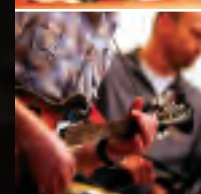
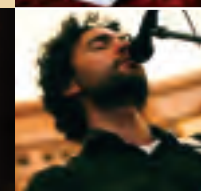
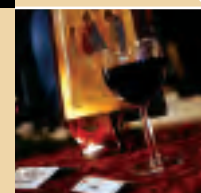
- Hummingbirds are the only birds that truly hover and fly backwards.
- The smallest weighs less than a penny.
- Some can flap their wings 60 times in one second.
- Their heart rates can race more than 1,200 beats per minute.
- Their fluid intake is the equivalent of a 200-pound human male drinking between 400 and 800 pounds of water a day.
- Despite their small size, they are a warm-blooded animal.
- They only exist in the Western Hemisphere, and there may be more than 350 species.
- Their metabolic rate is among the highest measured in vertebrate animals.
- They have a polygamous social system, which is rare among birds.
- In the wild, some hummingbirds live more than 10 years.

"GOD SENT A PERSON,



NOT A PROPOSITION."
A CONVERSATION WITH LEN SWEET

INTERVIEWED BY TAMARA CISSNA
tcissna@georgefox.edu



Len Sweet, futurist and best-selling author, is the lead mentor of the seminary's Doctor of Ministry Leadership in the Emerging Culture program. Calling on his understanding of postmodern ideals and his years as a mentor to pastors, he shares his insights into

THE EMERGING CHURCH

GEORGE FOX JOURNAL: What is the emergent church?

LEN SWEET: It probably would mean something different to everyone you would ask, but from my perspective, the "emergent church" is an ongoing conversation about how new times call for new churches, and that the mor-tar-happy church of the last half of the 20th century is ill-poised to face the promises and perils of the future.

In fact, attempting to define the "emergent church" betrays the essence of the movement because the emergent consciousness questions the notion that there is such a thing. Rather, there are only individual emerging churches that are missional in orientation that grow out of the indigenous soils in which they are planted. In other words, no two emerging churches are alike.

GFJ: Are there some common practices in emerging churches?

LEN SWEET: Pews are now antiques. Since the focus of emerging churches is on community, their worship space is flexible. Some have tables and chairs. Others have a more living room look and feel. But emerging churches are proving to be very surprising. For example, hymns are now back. And the church's liturgy and Eucharist are being rediscovered in creative and compelling ways. A lot of emerging churches are very "smells and bells" in their worship. Whatever the diversity of spiritual practices, the key words for emerging churches are incarnational, missional, and relational.

GFJ: Can you explain those key terms?

LEN SWEET: I'll try ... although books literally have been written on each.

• *Incarnational:* That means that Christianity does not go through time like water in a straw. It passes through cultural prisms and historical periods, which means that Christianity is organic. And like with any living thing, in order for things to stay the same, they have to change. There are some who think that Christianity is meant to stand in and for itself as a bounded discourse, impervious to cultural influences. That's one reason it took the Vatican 300 years to come around to heliocentrism: the idea that the sun, not the earth, was at the center.

• *Missional:* Does the church face inward or outward? A missional church faces outward toward the world, not like a porcupine stands against its enemies, but like water fills every container without losing its content. In fact, many in the emerging church reject the dichotomy between the church and the world. For too long, churches have faced inward, offering religion as a benefits package — something that "meets my needs" or offers good outcomes.

I tell churches to look at their mission statement. Many of them are no more than self-statements, not mission statements. This is how you can tell. Is your mission statement based on how to get people to go into the world, or how to get more people to come to church? The missional mantra that people are saying today is this: The church is measured, not by its seating capacity, but by its sending capacity.

Left: Geety Images. Right: Stephen Harmon

"NOT ALL TRUTH IS ABSOLUTE.



SOME TRUTH IS RELATIVE...

WHAT BRINGS TOGETHER ABSOLUTE TRUTH AND RELATIVE TRUTH IS RELATIONAL TRUTH.

•*Relational*: The gospel is all about the formation of community. The individualistic "meet my needs" orientation is seen as antagonistic to the ministry of Jesus. The African word *ubuntu* is often used, which literally means "It takes a 'we' to make a 'me.'" Emerging churches are discovering the "we" part of "me."

GFJ: So it's the incarnational characteristic of emerging churches that threatens its critics. Some remark that when churches try to become "relevant," they really mean "relative." True?

LEN SWEET: There is all too much panic over that word *relative*. I believe in absolute truth (which I believe, by the way, is Jesus the Christ, the way, the truth, the life — notice here that absolute truth is not abstract truth, but incarnate truth). The notion that there are no absolutes is self-defeating and self-contradictory.

Not all truth is absolute. Some truth is relative — to a person, to a culture, to a historical period. What brings together absolute truth and relative truth is relational truth.

GFJ: Then you are not connecting the concept of relative truth with the idea that it's

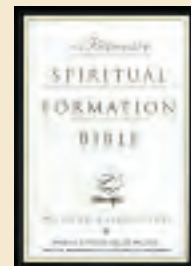
equally valid to choose any of the "many paths to God." What are some examples of relative truth that you do endorse?

LEN SWEET: Relativism is illogical and self-defeating. If all truth is relative, what is the truth status of the assertion that all truth is relative? What I am trying to do is end the apartheid of absolutism and relativism in Christian theology. I am a relative absolutist.

That means that absolute truth has to become incarnate in relative time. Faith is for the living of this hour, and the Bible has refer-

ence to and relevance for the living of this hour.

The world in which Jesus came could not conceive of a world without slavery. In fact, the ancient economy was based on slavery. Jesus did not deal violently with human nature and first-century culture. He did not go about brandishing "absolute truth." He dealt tenderly and patiently with the culture and people of his day. If he was harsh with anyone, it was the religious establishment. By regulating our treatments of others, and rejiggering our think-



The Bible through another lens

Richard Foster, a 1964 graduate of George Fox, is considered a key mentor among emerging church members. He is best known as author of the classic *Celebration of Discipline*, named as one of the top ten books of the 20th century by *Christianity Today*.

Out of *Renovaré*, a national spiritual formation movement Foster founded in 1988, the *Renovaré Spiritual Formation Bible* was released this May. *Publishers Weekly* describes it as a Bible that mixes the life-application practicality of a devotional Bible with the expertise and commentary of a study Bible, and the user-friendly graphics of an illustrated Bible.

This Bible, which uses the New Revised Standard Version, was five years in the making. To produce it, Foster spearheaded a team of more than 50 scholars, pastors, and theologians — including Howard Macy, George Fox professor of religion and biblical studies.

ing about others. Jesus led us inexorably into a place where things like slavery and polygamy were abolished.

Just as absolute truth had to be made relative to the culture in which it was first proclaimed, so absolute truth today must be made relative to our day and to our 21st-century culture.

truth is seen more in relational than in propositional terms. After all, God didn't send us a principle. God sent us a person. God didn't send us a statement. God sent us a savior... who is Christ the Lord.

GFJ: How are emerging churches distinctively missional?

long has been rent asunder: the whole gospel, both the personal gospel (evangelism), and the social gospel (justice and kingdom ministries).

GFJ: Please elaborate on what it means to promote justice and kingdom ministries. Can you share a few examples?

GFJ: How are emerging churches any more relational than evangelical mainstream churches? Isn't this what small groups are all about?

LEN SWEET: Much of the evangelical mainstream makes small groups a program of the church. It's an add-on, or a drive-through. In emerging churches, community is constitutive of their identity. It's the very essence of who they are.

There is also a relational component of the theology of the emerging church, where

LEN SWEET: Karl Rahner, the great 20th-century Catholic theologian, referred to what he called Thermos-bottle Christianity. This is a form of pseudo-church where you keep everything inside warm and cozy and fresh, but let the outside freeze and take care of itself. Missional churches are focused on what God is doing in the world. Their circles face outward, not inward. This is a culture that loves gated communities, and there are gated churches to match. Missional churches are putting back together what for too

LEN SWEET: It seems like every other week I have a favorite book. But for a few months now my favorite book has been Greg Paul's *God in the Alley*. Greg is pastor of a church in Toronto called Sanctuary, a community of people who have covenanted with each other to focus on the people who live and work on the streets of Toronto: the homeless, drug addicts, dealers, prostitutes, etc. There are other churches similarly focused on peace or on hunger. Woodman Valley Chapel in Colorado Springs adopted a squatter camp in Johannesburg, South Africa, and sends youth and others there to help elevate these poorest places on our planet.

GFJ: Finally, why might a pastor of an emerging church tell me I should follow Christ? And so what if I don't?

LEN SWEET: Everybody follows someone. We all give our lives to something. The only questions are who, or what? I invite you to give your life to Jesus.

I like how philosopher Dallas Willard does it: He challenges his students to the reality test: Put Jesus into practice.

Go ahead. Got someone better than Jesus in mind to follow? OK, try someone else first. Put Sigmund Freud into practice. Put Charles Darwin into practice. Put Karl Marx into practice. Put Aristotle into practice. Put Plato into practice. Put Pablo Picasso into practice.

The only who or what that can stand up to the reality test is Jesus the Christ, who is bold enough to say to each of us, "I am the way, the truth, and the life."

There's only one reason to follow Christ: Truth. Truth or consequences. **GFJ**



Brian McLaren



Todd Hunter

Visionaries train emerging leaders

Students at George Fox Evangelical Seminary are studying under professors on the forefront of the emerging church movement. This year Len Sweet, Brian McLaren, and Todd Hunter are teaching master's-level hybrid courses — classes taught in interactive online forums and a face-to-face weekend-long session in Portland.

"All three of these men are nationally recognized church leaders at the forefront of positioning the church for our times," says seminary dean Jules Glanzer. "They understand what is happening in the church and in our culture, and all three are helping the church serve in a postmodern culture."

McLaren, who is teaching "Theology and Purpose of Church" this fall, has written several books on the subject of postmodern ministry, including *A New Kind of Christian*. *Time* magazine named him one of the 25 most influential evangelicals in America in its Feb. 7, 2005, issue.

In the spring, Sweet will teach "Global Mission of the Church," and Hunter will teach "Evangelism and Discipleship."

Sweet, a historian, futurist, is a visiting distinguished professor at George Fox and a professor at Drew University. He is author of more than 600 published sermons, 100 articles, and 25 books.

Hunter is president of Alpha USA, a national organization that provides an introduction to Christianity through more than 7,000 U.S. churches. He is the former president of the National Association of Vineyard Churches. seminary.georgefox.edu

Left: Mike Penney

Today's George Fox undergraduate student lives in a multimedia world. Recent technological advances have changed campus life, altering the way students learn, communicate, and procrastinate

Tech daze



Meet Steve Tussing, a senior accounting and psychology major with a paper due in 27 hours. Steve doesn't own a cell phone, PDA, or iPod, but technology will shape his day . . . *



Thursday, Fall Semester

7:02 a.m.

Awakes, showers, and checks e-mail on his laptop. A classmate in psychometrics class asks Steve about the paper assignment. Steve e-mails him the link to the online class syllabus.

» **A computer for every student:** In 1991, George Fox became one of the first colleges in the nation to provide a computer (then a Macintosh Classic) to every freshman to keep upon graduation. The Computers Across the Curriculum program continues today. This year's freshmen chose between two laptops – a HP Business Notebook nx6110 or an Apple iBook.

8:07 a.m.

Watches his accounting professor display a PowerPoint presentation at the front of the classroom. The professor works through lease financial formulas by scribbling on his laptop display. His handwriting is projected on the wall screen.

» **Smart classrooms:** Many of the classrooms on the George Fox Newberg campus, Portland Center, and Boise Center are equipped with Internet-connected computers, LCD projectors, and CD, DVD, and VCR players. "Smart Classrooms" allow professors to share everything from satellite images to Beethoven symphonies to video clips of historical events.

9:15 a.m.

Starts research by looking up articles using the George Fox library's online resources. "I don't like getting books," he says. "I do it all through the Web. It's convenient if I'm trying to do a paper the night before. I don't have to worry about checking (a book) out, checking it in, or it not being there."

» **Library online:** The George Fox library offers online access to 18,000 academic journals. Thousands more articles, books, and magazine articles can be viewed through the library's other online databases or – if not online or on-site – a hard copy can be requested from several other regional libraries.

9:54 a.m.

Sends instant message to classmate asking if she had found any other sources for the paper.

» **Better than e-mail:** Many students say instant messaging (real-time, person-to-person online text discussions) is the best way to communicate with friends. Students can either e-mail or instant-message students through the campus network.

* While Steve is a real student (that's him in the little photo, above, this fictional day is a composite of his typical technology use.

by Rob Felton

rfelton@georgefox.edu

illustration by brian zick

11:55 a.m. Uses ID card to buy a bagel at the Bruin Den cafe.

▶▶ **Key to success:** Student identity cards at George Fox serve as food-service debit cards, electronic keys to campus buildings, library cards, and as a way to track chapel attendance. The cards also occasionally are used the old-fashioned way – to identify the student.

2:15 p.m. Finishes a reading assignment for his communications class and posts a response on the class's online forum. Classmates soon will read his comments and post their own reactions on the discussion board.

3:00 p.m. Starts work at the Institutional Technology Help Desk offering technical support to students and staff.

▶▶ **Help desk:** Students with problems with their university computers can get free quick fixes and training 7:15 a.m. to 11 p.m. each day from the IT Help Desk. All university computers come with warranties, allowing IT staff to replace broken parts in minutes.

5:12 p.m. Logs onto slashdot.org (News for Nerds. Stuff that matters), his favorite "computer geek site," for the latest technology news and reads the daily Scripture at goarch.org, the online chapel of the Greek Orthodox Archdiocese of America.

▶▶ **A campus-wide Web:** Students at George Fox don't need to plug in to get Internet access on campus. George Fox offers wireless Internet access on its Newberg campus, Portland Center, and Boise Center.

7:07 p.m. Returns to his laptop to write paper.

8:19 p.m. Switches to his computer science homework. Logs onto his professor's Web site to review a multimedia recording of yesterday's class lecture. He listens to his professor's voice while the programming code, PowerPoint slides, and handwritten notes appear on the screen.

9:44 p.m. Spots an inexpensive pair of sandals in the "For Sale" folder on BruinBoards. E-mails an offer. Browses through the Senior Class Discussion folder and Religion folder.

▶▶ **BruinBoards:** Students and staff can read and post messages in dozens of different George Fox online forums. Messages range from prayer requests to job postings to complaints about cafeteria food. (Some things never change.)

10:33 p.m. Returns to work on paper.



Friday

1:32 a.m. Bed

7:15 a.m. Wakes up. Checks e-mail. Skips World of Music class.* Continues to write paper.

9:57 a.m. E-mails paper to professor.

▶▶ **Going paperless:** About a quarter of all George Fox professors request that papers and assignments be submitted in electronic form.

*Steve says he rarely skips classes

Net gains

When this year's freshmen were born, students brought typewriters and cassette tapes to college. Eighteen years later, technology looks a bit different.



	1987	2005
George Fox enrollment	705	3,210
Phone home	"Got a quarter?" Payphones are the only way you can call home	"Can you hear me now?" Most students bring their own cell phones to school
On-campus call	One phone per dorm hallway. Calling for a date is a public spectacle	Calling from your room phone is a last resort if instant messaging, e-mail, and cell phone all fail
Computers	Primarily used by secretaries as a recent replacement for their typewriters. Used by only a few faculty or administrators	More than one per student and faculty
Journaling	"Dear Diary...."	Students write daily blogs, sharing their experiences with Mom, Dad, and anyone in the world with an Internet connection
Internet	A twinkle in Al Gore's eye	Wireless access in every classroom, residence hall, and most buildings
Music	Cool new CD technology sounds sweet on those five-foot-tall speakers	Students download music over Internet to their two-inch iPods
Library research	Search the card catalog. Check out books from library	Search thousands of online journals from dorm room
Spam e-mail	Never heard of it	Can't get rid of it

Is God Republican or Democrat?

by Mark David Hall

God may not be a Republican or a Democrat, but leaders of the religious right and left both act as if he wholeheartedly endorses their parties.

Wouldn't it be astonishing if carefully discerned biblical principles resulted in political prescriptions that mirror precisely those advocated by the Republican or Democratic parties? This is exactly what prominent spokesmen for the religious left and right contend.

For instance, Jim Wallis, in his recent bestseller *God's Politics*, purports to take the political left and right to task. While he severely criticizes conservatives, he has virtually nothing but praise for liberals. He does suggest that the Democratic Party might be a bit more critical of abortion, yet most of his advice to Democrats concerns how they can better use religious rhetoric to win elections.

Leaders of the religious right are no better. Examples abound, but my favorite comes from personal experience. Back in my partisan days, February of 1988, to be exact, I was in Iowa doing volunteer work for one of the presidential candidates. On the Sunday morning before the Iowa caucuses I was distributing leaflets in a church parking lot (yes, I should have been in church) when I ran across supporters of Pat Robertson doing the same.

Being somewhat cheeky back then, I asked them why they weren't in church. They informed me, in all seriousness, that they were doing the Lord's work. And indeed they were, at least according to the pamphlets they were putting on windshields.

The pamphlets showed the extent to



“Christians can surely agree that God calls us to help the poor, but what does this mean with respect to taxes and government programs?”

which the different Republican candidates agreed with the Christian position on a variety of issues. The rankings varied, but none came close to Pat Robertson, who agreed with God on 95 percent of the issues. His only shortcoming was his willingness to support tax increases on alcohol and tobacco — God apparently opposes all tax increases, even increases in so-called “sin taxes.”

Wallis and Robertson make the same error of submitting God's politics to man's political parties. In doing so, they are able to provide a simplistic set of answers to complicated social and political questions. We would be wise to heed Sen. Mark Hatfield's admonition that things are not quite so simple.

Christian political thought must begin with a serious consideration of biblical principles relevant to politics. It must then be followed by careful study of the impact political institutions, practices, and policies are likely to have in a particular time and place.

What does it mean, for instance, that humans are created in the image of God,

that we are sinful, or that we are called to be peacemakers? Answering such questions requires not just study of the Bible but careful consideration of church tradition and thoughtful contemporary thinkers.

Even if biblical principles are fairly clear, their policy implications may not be. For instance, Christians can surely agree that God calls us to help the poor, but what does this mean with respect to taxes and government programs? If tax cuts create jobs for the unemployed, perhaps

Christians should support them. But what if tax cuts lead to a reduction in government programs that aid the poor? What if these well-intentioned programs have the unintended consequence of trapping people in poverty? And so it goes.

Answering questions such as these requires meaningful reflection on history, social science, and practical experience. They cannot be addressed well without hard work, and the answers will seldom be unambiguous and clear.

Leaders such as Wallis and Robertson do a service in calling Christians to think biblically about politics and to be involved in the political process. We should honor them for their contributions, but we should not assume that they, or either party, have a monopoly on God's politics.

Mark Hall is the Herbert Hoover Distinguished Professor of Political Science at George Fox University. He is also a Chautauqua Scholar for the Oregon Council for the Humanities.

Left: Christine Williams

Family Weekend November 4–6

Students will share the spirit of campus life with their families. Musical and theatrical performances round out a full weekend of family-style events, which include worship with the George Fox community at a Sunday morning chapel service, a holiday auxiliary bazaar, and Comedy Sports, an improvisational comedy group from Portland.



For more information or to register, contact Evangeline Pattison at 503-554-2134 or evpattis@georgefox.edu.

Portland Christmas Celebration November 29

Join President and Mrs. Dave Brandt for a festive kickoff to the Christmas season. This year's Portland Christmas Celebration will feature food, exhibits, and entertainment from 7 to 9 p.m. at the Portland Golf Club. Enjoy the company of the George Fox family as we celebrate the birth of Christ — the reason for the season. Tickets are \$30.

For more information or to register, contact Ronecca Dockter at 503-554-2116 or rdockter@georgefox.edu.



Homecoming February 3–4

Come home to George Fox and renew connections during Homecoming 2006. The university is growing rapidly, and “Connecting at the Speed of Life” will emphasize the importance of relationships and provide opportunities to preview the future of the university.

Come see how much the campus has changed since you left — we've done plenty of building and

remodeling of late. Connect with the friends and professors of your past. Catch a Bruin basketball game, a theatre production, and an alumni celebration brunch.

The classes of 1946, 1966, 1976, 1981, 1986, and 1996 will be honored. Affinity reunions will be held for former participants in track, cross country, and the a cappella choir under Jerry Friesen.

For more information or to register, contact Nate McIntyre at 503-554-2130 or nmcintyre@georgefox.edu.

View more events and activities at georgefox.edu/webevent.

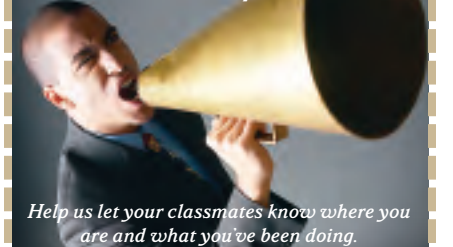
Let us help you with your retirement income needs
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GIFT ANNUITY RATES	age	rate
8.5% (example at age 82)	65	6.0
	70	6.5
	80	8.0
	90+	11.3

Contact Peter Smart
Office of Estate and Planned Giving • George Fox University
psmart@georgefox.edu
503-554-2106

Estate planning and life income services • Income tax planning

Come out, come out wherever you are ...



Help us let your classmates know where you are and what you've been doing.

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and click: Connect

Kiss and don't tell



The mystery photo in the spring issue of *George Fox Journal* is still a mystery — even to the photographer. We asked readers to tell us more about the sentimental occasion where a female student is greeting a male student with a welcoming or departing kiss while he is in the back of a truck. Three

male students are part of the group. A paper or canvas sign displayed above the back of the truck indicates it was a special event. It says "Pacific College," but the rest of the words are not legible.

The photo was taken in front of Wood-Mar Hall by Lewis Hoskins. Now 89 and a resident of Dallas, Ore., the 1979 Alumnus of the Year, wrote: "While a student, I took many photos for the *L'Ami* and *The Crescent*. I added a few while teaching later." But he says "I do not remember nor have a record that would identify this shot," adding, "Sorry and good luck on your search."

Knowledge that Hoskins graduated in 1938 narrowed down the possible years for the photo to 1934–38. The *Journal* wrote to the 24 still-living members of the four classes in that span for which the university has an address. "Loved the picture," responded Esther Miller Geddes McVey, a member of the Class of 1937 now living in Eugene, Ore. She suggested some possible names for two in the picture, but, like the *Journal*, was not sure about the accuracy. She added "I'll keep checking and let you know if I come up with

anything more." No one else took a guess.

So, the event remains unknown and a gift from the University Store remains available for anyone able to identify the occasion and the students.

▼ Moving right along . . .

What's this all about? Hint: Despite appearances, it's not the university's original counseling services. Please share your thoughts. We'll enter all responses in a drawing for a gift from the University Store. Submit your entries to journal@georgefox.edu or mail them to: Journal, George Fox University, 414 N. Meridian St. #6069, Newberg, OR 97132.



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