Joseph gives annual Chavez address

This year's speech focused on immigration issues with U.S. and Mexico

Courtney Klein

On Monday, April 14th, Hope college hosted the fourth annual Cesar E. Chavez Address. The address, titled "Crossing Borders: US-Mexico Immigration Debate and Challenges," was given by Daniel Hernandez Joseph, Consul of Mexico and brother of Lorna Hernandez Jarvis, professor of Religion at Hope. Research on migration and brother of Lorna Hernandez Jarvis, professor of Religion at Hope. Research on migration and Joseph has been held in various positions that dealt with migratory issues.

Joseph was quick to define what the migrant worker is, and what their goals are. "Migrant workers are workers looking for jobs that pay better than the ones they already have," Joseph said.

One idea that Joseph focused on in his speech is the idea of the migrant worker living in fear. "The experience of the worker is that of Chavez, living in fear of immigration officials. They have lost the right to exist because they live in fear," Joseph said.

While highlighting the feelings of immigrants, Joseph also mentioned the feelings of those who live in the United States. "Some Americans believe they should have no rights, because of their immigration status," Joseph said.

Joseph's speech focused on the relationship between the United States and Mexico regarding the immigration issue. What Joseph mentioned was the fact that Mexico didn't want to talk about immigration issues, because they didn't want to talk about preventing people from leaving their country, more CHAVEZ on 2.

Walter Nelson ('05) and Prabhu Tamlilarasu ('05) enjoyed the warm weather covering much of the Midwest on Tuesday by tossing around a frisbee near the Friedl International Center.

Stein addresses campus

Speaker series declared a success by organizers

James Pierce

Ben Stein came to campus last Tuesday and left on Thursday, as often happens with speakers in the Student Congress Speaker Series. The time in between Stein’s arrival and departure, though, was described as “amazing” and “high-light of the year” by Amy Avery ('02), chairperson of the Speaker Series Task Force, and Matt Scogin ('02), Student Congress president. “He was here for two nights,” Scogin said. “He spent time on campus, he spent time with students, he played frisbee with students, he checked his email in the library — it was just cool.”

Stein could be frequently seen obliging students’ requests for pictures and autographs, and was also spotted pounding nails at Habitat for Humanity’s Habi fest event on the Dewit Pino. “There was nobody he would turn down for a picture or an autograph or anything,” said Avery, who also chaired last year’s committee to bring Ma y Angeles to campus for the series. “In the middle of checking his email he would get up and take a picture with somebody. I thought it would get really old and really annoying at first for him and for Humanity’s Habit fest event on the Dewit Pino.

In the middle of checking his email he would get up and take a picture with somebody. I thought it would get really old and really annoying at first for him and he totally would do it. When we first brought him here it was almost 10:30 and he didn’t want to check in. He wanted to go meet people. He was just really excited to be here.”

Avery relates a similar sentiment more STEIN on 2.

Former Hope student, Nobel prize winner to speak

New technology innovations may lead to replacement of computer chips

Danielle Koski

Nanotechnology seems like a foreign planet to most people, but in short time it could become a part of everyday life.

Richard Smalley won the Nobel Prize in 1996 for his preparation of fullerenes, which eventually led to Buckyballs and Buckytubes, and has become one of the main components in nanotechnology research. Smalley will be speaking at Hope on Friday, April 19, at 4 p.m. in VanderWeld 102, and will be talking about “Buckytubes: New Materials and Devices from Carbon.”

“Pulses used to think that carbon occurred only as diamond or graphite, but Smalley found a third form of the element, Buckyballs,” said Don Williams, a Hope professor of chemistry. Buckytubes are extremely small carbon tubes that are arranged in a net-like pattern similar to the pattern of soccer balls, if they were made into cylinders. The tubes have amazing properties, like being 30 to 100 times stronger then steel, and having superb conducting capabilities.

“Well, when you pull on a buckytube, it’s the stiffest damn object in the universe,” said Smalley in an interview he gave to Essential Science Indicators (ESI) in March 2002. These properties have opened doors in technology, especially in the field of electronics.

“Buckytubes might replace silicon as computer chips,” Williams said.

To use Buckytubes in areas of the computer industry could mean super thin flat screens with high definition, and micro-sized transistors.

“Within five years, I’m confident we will find single-wall nanotubes in commercial products, and most likely those will be products that exploit the electronic conduction properties (of nanotubes),” Smalley said in the March 2002 ESI interview.

Smalley has won multiple awards for his research in nanotechnology, besides the Nobel Prize. He was elected to the National Academy of Sciences in 1990, and the American Academy of Arts and Sciences in 1991. His work has been published and cited in various scholarly journals, including Science.

“[Smalley] is personable, charming, smiling, and won a prize most of us only dream about,” Williams said.

Smalley was a Hope student from 1961 to 1963, then left to complete his chemistry more TUBES on 2.
Four Hope profs plan to retire after this year

Biology, political science, chemistry and education will all lose professors

Becca Haynes
Staff Reporter

Four longtime members of the Hope College faculty will say goodbye this year. Harvey Blankespoor, the Frederick Garrett and Helen Floor Dekker Professor of Biology; Robert Elder Jr., professor of political science; Donald Williams, professor of chemistry; and Ronald Wolthuis, associate professor of education will be retiring at the end of this school year.

Blankespoor joined the Hope faculty in 1976. In 1980 Hope students presented him with the "Hope Outstanding Professor Educator" (H.O.P.E.) Award. Since 1993, he has conducted many interviews with Hope students in South America and East Africa. Blankespoor and his wife Marlene were Resident Directors in Cosmopolitan Hall from 1993-2001.

Elder joined the Hope faculty in 1969. He helped to establish Hope’s May term in Washington D.C. in the early 1970’s, and the Hope Washington Honors Seminar in 1976. In 1993 he instituted a faculty exchange with Bishop Herber College in Tamil Nadu. He was also a faculty consultant to the political science department at the University of Colombo in Sri Lanka through a Fulbright grant.

In 2000, he was Hope’s exchange professor at Meiji Gakuin University in Japan. Elder co-authored the text "American Government: Essentials and Perspectives" with Jack Holmes, professor of political science and Dr. Michael Englehardt.

Williams has been a member of the Hope faculty since 1969. Williams has created courses concerning the environmental consequences of electrical power generation, and the history of the atomic bomb. He has developed the course "Science and Human Values," since the implementation of the Senior Seminar program in 1969. He has also consulted with the Holland Board of Public Works and has served on the Board of Governors of the Michigan Low-Level Radioactive Waste Authority. He has won state and national American Nuclear Society Communication Awards for his ability to communicate with the public.

Wolthuis’ wife Susan is retiring this year as director of the college’s FOCUS and SOAR programs. Williams’ feelings about retirement are bittersweet.

"I’ve known tremendous students who have helped me grow. But I’ve been an eighteen year old student for 60 years, and it’s time for me to move on. I want to retire at the top of my game. I’ve loved teaching, but I look forward to other things," Williams said.

Williams intends to pursue a variety of interests.

"I’ve got to feel useful. But I also plan to do a lot of traveling and photography. I’m going to take my slide show of my funny signs collection to retirement centers in June, where I’ll also do talks on the history of the atomic bomb. If it works, I’ll take it on the road," Williams said.

Wolthuis is a 1964 graduate of Calvin College.

Wolthuis became a member of the Hope faculty in 1985, focusing in special education.

During the current school year he has taught "The Exceptional Child," "Introduction to Educationally Impaired," "Psychoeducational Strategies," and "Senior Seminar.

Wolthuis has also been active at the state and national levels, including the Professional Advisory Boards of the Autism Society of Michigan and the Michigan Association for Children with Emotional Disturbance, Institutions for Higher Education Advisory Committee, and the Education Committee of the Autism Society of America. He was elected recipient of the fall, 2000 "Honorary Professor/Staff Member Award" by the student body. He will present the college’s Commencement address on Sunday, May 5.

Wolthuis intends to continue teaching after his retirement.

"We [Wolthuis and Sherrill Wolthuis] are going to teach in schools for missionary’s kids. I’ll use my special education training and work with special needs students. My wife has a considerable ESL background which will also be useful. We share a vision for this kind of work. I will also probably work in recruitment, training special education teachers and also do some work in teaching abroad," Wolthuis said.

Wolthuis considers retirement teaching as a window to several years of numerous opportunities.

"Retirement closes a phase of my career life and opens another. It’s a wonderful experience to take all of the gifts I have been given and to use those further," Wolthuis said.

Wolthuis considers his years at Hope to be invaluable.

"Hope has been a wonderful experience for me and my family. Each of my sons has had a great experience at Hope. It has helped me to learn how to integrate my faith and my profession," Wolthuis said. "At Hope I began to understand how the two vastly different aspects can complement one another. I have also learned more on how to be an effective educator on this campus. I have a deep respect and affection for my colleagues here, and I know God is doing important things on this campus."

Pine Grove to be rocked by Earth Jam Saturday

EIG sponsors annual Earth-friendly event

James Pierce
Staff Reporter

Earth Day is fast approaching, and Hope’s Environmental Issues Group is throwing a celebration in the pine grove this weekend.

Live music, poetry readings, and paper making are all part of this year’s event, according to Dyan Couch ’94, one of the event’s organizers.

Earth Jam will also feature a raffle and prizes, with proceeds going to a tree to replace the ones near DeWitt that fell down recently.

"Earth Jam is a day of celebrating the Earth," Couch said. "It’s about trying to enjoy being outside, learning about how to protect the Earth, and teaching people about how to make simple decisions on how to help the environment.

WTIS will be broadcasting live from the pine grove as Earth Jam takes place between 11:30 am and 5:30 pm this Saturday, April 20.

Earth Jam has been an annual feature at Hope for more than 12 years, according to Couch.

Admission to the Earth Jam is free, and the only expense for participants is in the raffle tickets, which cost 25 cents each.

In the event of rain on Saturday, Earth Jam will move to the Klez.
Senior art show shines in DePree gallery

Maureen Yonovitz

For those who haven’t been to the DePree gallery in a while, the senior art show “Art Addicts: Dealers Welcome” is now underway. The display, featuring the work of at least 25 seniors, began Friday, April 5 and will continue through Sunday, May 5.

From its initial planning to the hanging of the artwork, the show is run completely by the senior artists. Each artist chooses four works to display and presents an artist’s statement.

“It is a time when they [the artists] can truly show what their work is about,” said Jenna Anderson ’02.

Anderson is presenting four paintings in the show. For two of them, entitled Resurrection and Whirl, she used encasements which, she explains is a wax-like substance that must remain heated in order to keep from drying and then fused to the surface of the paintings with a heat gun after being applied.

“I am relieved because I worked so long to think of and finish the works for this show and can finally just stand back and appreciate them,” Anderson said.

The show includes work from a range of artistic forms. Anna Kohls ’02, whose major focus is in ceramics, has a number of bowl and cup sets in her display.

“Most people think of art as just painting, or just drawing. The art show provides viewers an access to many other media and a variety of styles,” Kohls said.

All students are encouraged to come to the show and experience the many different types of art on display. The artists hope everyone will find some enjoyment in seeing what others have done and possibly gain some inspiration in learning something new about what they see.

“It’s just fun to wander around a gallery and wonder ‘what is that big blue square supposed to mean?”’ Kohls said. “Art opens up a new line of thinking.”

Also, in addition to their artwork being displayed, two graduating history majors Jennifer Chalifoux ’02 and Lauren Hermes ’02 will be presenting their senior papers Thursday, April 18 at 7 p.m. in Cook Auditorium of DePree.

Creativity award given to artistic seniors

Emily Moellman

The Hope seniors in the arts will graduate with something, to show for all their hard work, dedication and creativity. Susan De Kam, the director of the art department, and Rachel Pridgeon of the English department and Charlotte van Kamoven of the dance department were recently awarded the Mary Van Tamelen Prize for Creativity in the Arts.

The prize is awarded annually to a graduating senior or group of seniors on the basis of extraordinary creativity in the general arts department or in one of the areas included in the arts. This year, the selection committee comprised of professors from the arts headed by William Reynolds, Dean for the Arts and Humanities, deliberated several hours over the candidates materials before awarding the Van Tamelen Prize to the lucky three artists.

It’s always a difficult decision to make because we have very talented students here at Hope who receive good teaching and mentoring,” said Reynolds. “In picking the best of the best, you are presented with some impressive artists.”

Van Kamoven was selected for the award in her work in choreography.

“I was happy when I heard the news,” van Kamoven said. “The dance department hasn’t had a recipient of the award in several years. It is not only a good thing for me but also for the department.”

Van Kamoven has incorporated many other forms of art into her choreography, including the poetry of student Ben Falk ’02, and the painting “New York City” by abstract artist Mondrian.

Pridgeon was selected for her work in creative writing including fiction, poetry and nonfiction. She also included original photography in her portfolio.

“It has been a huge honor, mostly because I was nominated by the faculty,” said Pridgeon. “I’m thrilled for the past four years,” Pridgeon said. “The nomination is actually more important to me than the award itself.”

De Kam was awarded the Van Tamelen for her performance work, in dance and organ. She recently placed second in the collegiate organ competition at the Music Teachers National Association annual conference in March.

All of Van Tamelen award winners will be publicly honored at the annual Honors Convocation on Thursday, April 24 in Dimnent Chapel.

Late night jazz concert will jive local restaurant

Rebecca Haynes

On Thursday, April 18, the Hope jazz ensemble and the Anchor Band will give reason to stay up past your bedtime. The Jazz Chamber Ensemble I, Jazz Ensemble I, and the Anchor Band will present a concert beginning at 10 p.m. at 84 East Restaurant.

Hope jazz faculty member and director of the Jazz Ensemble Bryan Coley considers the concert to be an important experience for student musicians.

“We try to have a concert at least once a year in a club setting. It’s the best place to see jazz music, because the atmosphere is more relaxed. It’s important for the musicians: the students always play better in this kind of situation because they’re more relaxed,” Coley said.

Coley’s Drummer Mike Kopchick ’04 echoes Coley’s sentiments.

“When you’re playing in a club it’s more in-the-moment. There aren’t a lot of opportunities to hear live jazz this close to home.”

The Jazz Chamber Ensemble I, consisting of five musicians, will play selections from a repertoire including “Lennie’s Pennies,” by Lennie Tristano; Michael Brecker’s “Tea Bag”; “Stop,” by Paquito D’Rivera; Duke Ellington’s “Caravan”; and “Witch Hunt,” by Wayne Shorter, among others.

The 16-member Anchor Band, directed by faculty members Steven Ward and Donald Workinger, will play a selection of songs such as Shelly Berg’s “Miles Mood,” “Louisin’,” by Frank Manootcho; Jeff Jarvis’ “The Right Track”; and “Cuaba,” by Frank Tristano; Michael Brecker’s “Tea Bag”; “Stop,” by Paquito D’Rivera; Duke Ellington’s “Caravan”; and “Witch Hunt,” by Wayne Shorter, among others.

The Anchor office in the Dewitt Building.

Do you have an event you want to be advertised in WHAT’S GOING DOWN? If so, please drop off information to the Anchor office in the Dewitt Building.

Nightlife:


Howlin’ Moon Saloon: Contemporary country music and line dancing. Thrus.-Sat: live music.

Hoping for new contract

SAC movie “Harry Potter” Fri. and Sat. 7 p.m. and Midnights, Sun. 3 p.m. at Graves Hall.

April 17: Coffee House in the Klets 9-11:00. With Corey Adomitis and Matt Workman...

April 22: “Something Every Tuesday” sponsored by Office of Student Activities: Organizing 101.

April 19: Hypnotist Fred Winters in Philips at 8:30. Free for all.

Concerts:

April 17: Beta Band at St. Andrews in Detroit.

April 18: Pete Yorn at the Riviera in Chicago.

April 20: Super Furry Animals at the Abbey in Chicago.

April 29: Chemical Bros. at the Allstate Arena in Illinois.

April 23: Dave Mathews Band at the Palace in Auburn Hills.
Next week will be the last issue of the Anchor for the year and we will be running a "year in review" page, highlighting the campus happenings of the past school year.

This year has been a strange one for me. On one hand, I'm editor of the Anchor and inextricably involved with Hope College. On the other hand, I'm a graduating senior, sick of Hope College, eager to move on with my life and not interested at all in being involved. I think this has given me a unique vantage point for what's gone on.

Next week, we'll take a closer look at this year, but for now, here is my top four list of the best and worst Hope College moments of the 2001-2002 school year.

4 (worst): SAC and Hope Asian Perspective Association (HAPA). In October (Anchor, 10/17), HAPA asked for an apology from SAC for showing the film "Sixteen Candles," which featured a racist depiction of an Asian character. My problem is not with SAC, who did the right thing in apologizing, but in the campus in general, who responded with a resounding "what's the big deal?" The big deal is that any group has the right to speak out in their own defense. Hope college students still have a lot to learn about diversity.

3 (worst): Hockey Club not allowed to play on Sunday. When the Hope College powers-that-be told the Hockey Club that if they made it to the championship game they wouldn't be allowed to play (Anchor, 3/17), the story was picked up by the local press and Hope became the laughingstock of college sports. It's ironic that a college so obsessed with image shot itself in the foot by showing itself to be hypocritical and backwards. Why would anyone want to play sports at a college that cares more about old-fashioned rules than winning a championship?

3 (best): Gay-Straight Forum (GSF) fights on. Despite being denied official recognition two years in a row, the GSF showed determination this year both before and after the Campus Life Board decision, even enlistng the help of the ACLU and some gay-supporting alumni. It's still an uphill battle away, but I predict the GSF will be recognized officially in the next two years.

2 (worst): Post 9/11 intolerance. In the weeks that followed the terrorist attacks of September 11, religious articles were stolen from an Islamic student's room, a bulletin board about Islam was defaced and a racist flyer was seen on campus (Anchor, 10/31). These things may not have been caused by Hope students, but if they were, they were an embarrassment to us all. Religious and racial hatred is just not acceptable ever. I still hope that the perpetrators will have the guts to apologize for what they did and then make the effort to become friends with a person of a different religion.

2 (best): Hope College's patron celebrity, Ben Stein. When the great saxophonist was on stage in Dimnent Chapel playing a virtuoso solo rendition of John Coltrane's "Naima," even unspiritual people experienced what it means to be divine (Anchor, 11/28). Hope College should teach us more lessons like that.
Hope’s culinary professionals speak from the kitchen.

Jen Troke
Spotlight Editor

Todd Van Wieren, Certified Executive Chef for the Haworth Center and Cook Hall, got his first job in the food industry at the tender age of 13.

“Some-thing you just have to follow your passion.” -Rebecca Russcher ('96), Chef

He now been cooking there for 24 years. He graduated from Grand Rapids Community College, then G. R. Junior College, which boasts being one of the top three culinary schools in the United States.

Van Wieren worked at the Holland Holiday Inn before coming to Hope. He cooked there for the hotel’s first 10 years, but was the Executive chef for the last six. Until the Haworth Center was built, Holiday Inn was the only conference center on campus.

“This was going to be our direct competition,” Van Wieren said. He interviewed for the position and demonstrated his cooking skills. He was chosen over about 12 to 15 other candidates.

Now, Van Wieren is in charge of food, beverage, and conference center. His favorite part of the arrangement is the diversity.

“During the week, we cook for the students, and on the weekends, we’ll cook something a little more upscale for the conference center,” Van Wieren said.

According to Van Wieren, the kitchen facilities are among the best in Holland. The set-up even includes air conditioning - a rarity for large kitchens. Van Wieren doesn’t have as much time to enjoy the facilities, however.

“I’m more management,” Van Wieren said. “I do the training and the scheduling and basically oversee the kitchen, have a staff of chefs that work for me.”

Six chefs work for Van Wieren, three of whom have taken the culinary courses at G. R. C. C. One of the chefs is Rebecca Russcher ('96). Although Russcher was a history major at Hope, she has followed a different path since graduation.

“At Hope, I’ve just had time to enjoy music and food,” Russcher said. “I might have a lot of creativity, but that’s what you need to do something big.”

Hoyt’s background is Italian, so she comes from a long line of good cooks, Hoyt said. At Hope, Hoyt has kept up with cooking through a favorite magazine, along with reading recipes and watching the cooking channel.

“I am obsessed with Food and Wine Magazine,” Hoyt said. “That’s my goal - to write for that magazine.”

She took a trip during her time at the college that encouraged her interest in cooking as well.

“I was really inspired by a trip I did to Paris last May,” Hoyt said. Hoyt has also pursued other interests, including creative writing. She was torn between entering graduate school to pursue a creative writing degree and heading to a culinary school.

“I threw out all my grad school applications without thinking, and that was my answer,” Hoyt said. “I’m going to the French Culinary Institute in New York.”

She will enter a six-month accelerated program there.

The first three months will be spent practicing in the kitchen, and the last three months will be filled with cooking for the French restaurant connected to the school.

For the summer, Hoyt will work cooking at an upscale restaurant in Oxford, near her home in Ohio.

“Some friends from India come every year and cook. Their family began attempting Indian food themselves,” Hoyt said.

The family tradition first got her interested in the culinary arts. Hoyt’s background is Italian, so she comes from a long line of good cooks, Hoyt said.

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Culinary aspirations of two Hope students

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**Hope’s Culinary Hopefuls**

Lenee Ligtenberg ('04)
Lake Mac has problems but solutions too
Erica Heeg

Many may realize that Lake Macatawa isn't the cleanest lake around but probably didn't know that it is the sight of intense environmental work and cleanup efforts.

"The state of Michigan collected samples from various lakes, ran them through the lab, and discovered Lake Macatawa had a phosphorus problem," said Graham Peaslee, professor of geological and environmental sciences. "We had a lot of phosphorus; it's probably one of the highest in the state of Michigan."

According to Peaslee, the lake used to be different: in 1927 an eighty-pound carp was caught in Lake Macatawa.

"There are no longer 80 lb carp because the lake is not that healthy, and the reason it's not that healthy is because it's called eutrophic," Peaslee said. "Eutrophic means nutrient rich, too many nutrients...and to you and I that means too much fertilizer."

The Lake Macatawa watershed is 50-60 percent agriculture, according to Peaslee. And, for farmers, fertilization is necessary.

The watershed is topographically defined here as the area around Lake Macatawa where any drop of water hitting the ground would ultimately get to Lake Macatawa. The watershed includes 100,000 acres in Southern Ottawa and Northern Allegan counties.

"This increase in nutrients causes...algae blooms and things like this which basically reduces the water quality," said Jonathan Peterson, professor of environmental science. "It's primarily affecting surface water, its uses, recreational things...also the ecosystem. Algal growth takes away oxygen from fish and other things in the water."

Pollution was really bad in the late '60s and early '70s and consequently, says Peterson, in the '70s some major regulations and laws were passed, specifically the Clean Water Act.

"Part of that was the regulation of point sources—point sources are literally that—something you can point to where you see discharge or contamination coming out...like a factory's discharge," Peterson said. "Point source regulation has been very effective. In the last 25 years we have reduced the contamination and have essentially cleaned up a lot of the surface water."

Peaslee agrees.

"Since the '70s water quality has improved considerably. The lake is much cleaner in terms of toxicity, there is very little DDT or mercury being added," Peaslee said.

Also, according to Peaslee, environmental indicators have turned around; the numbers of hawks really came up from the '70s, which means more fish.

"We have been very good at regulating the contaminants from point sources. We can't get much better on the point sources. Now the challenge is what we call non-point sources or runoff from parking lots, agricultural fields, and roads," Peterson said.

In 1996, the Macatawa Area Coordinating Council (MACC) agreed to oversee a comprehensive watershed project aimed at reducing the level of phosphorus in the Macatawa Watershed. The MACC formed a partnership with the Michigan Department of Environmental Quality (MDEQ).

"The MDEQ is lending technical expertise to water quality sampling and data collection, and is acting as a liaison to the US EPA who is funding part of this watershed," said MACC's website. "MAAC, a nongovernmental and non-profit organization, began in 1999 and is a ten year program with the goal of reducing phosphorus by seventy-percent in Lake Macatawa by 2009."

"So the state is involved, agricultural groups are involved, municipalities, townships are involved in trying to rectify this situation," Peterson said.

Herman Miller Inc., Holland Country Club, Hope College, and Zeeland Township are among the many of MACC's community partners.

"Basically, everybody's working together to try and do it the right way," Peterson said.

Both professors say that MACC is implementing a series of BMPs (Best Management Practices), which are ways to reduce the input of fertilizers into the water.

Best management practices might include systems for farmers to try different crop rotation techniques and may include state matching money.

Peaslee, who is in charge of MACC's technical subcommittee is looking at the technical aspects and prioritizing what needs to be done first and foremost.

"There are so many things to do; you don't want to wait forever to have some results," Peaslee said. "Lake Macatawa's problem certainly isn't unique. Peterson says that the Clean Water Act is up for reauthorization in the U.S. Congress, and one of the sticking points is non-point sources.

"How do you regulate non-point sources in an intelligent economic and effective way? It's not as easy as the point sources and agriculture will be affected," Peterson said. "Agriculture is very important to our economy and our society. We have to do this in a careful and prudent manner."

In addition to agricultural problems, the Macatawa watershed only has one lake, which is an unusual topography.

"That means there is nothing to slow a particle of dirt that gets washed down the river here all the way into the lake. We have very mobile soil, and when it rains the river gets brown really quickly," Peaslee said.

Peaslee adds that MACC is trying to educate the consumer about soil testing and detention ponds.

For the past 7 years Peterson has been working on laboratory experiments that will help us understand how to cleanup contaminated groundwater, particularly regarding fuel contaminants, gasoline contaminants, spills from underground storage tanks.

"This summer will be the first summer that I'm taking a turn in the research, and I'll actually be investigating the groundwater in the Macatawa watershed," Peterson said. "Now this will not be for petroleum contaminants, but it will be looking at nutrient contaminants: nitrates and phosphates which are from fertilizers."

Peterson says that the surface water has been studied extensively and the connection between surface water and groundwater is just beginning to be realized.

"The last thorough study of groundwater was published in 1958, so it's time to get back into groundwater," Peterson said.

Both professors also claim that it's easy for any student, science major or not, to get involved.

"Students can begin by getting involved in our environmental science minor program at Hope. In those courses we talk a lot about solving problems technically," Peterson said.

Also offered is a public policy course: environmental public policy, which is cross-listed with economics and political science and GES.

"An environmental studies program which is non-science oriented and includes the philosophy of environmental stewardship and the sociological aspects of the environment is emerging as well," Peterson said.

Peaslee says that students can do a lot in terms of the sciences: research, summer related projects, volunteer organizations, and especially education.

"The way the MACC is approaching this is they are going to educate at the K-12 level because those are the people you have to catch. Someday they'll be landowners," Peaslee said. "They are always looking for volunteers; I'm looking for volunteers to read rain gauges. Encourage everyone to be aware of what's going on."

He adds that something even as simple as voting in a local election can make a difference for the future of Holland's Lake Macatawa.
A Sludge Tour of Lake Macatawa

Having received the assignment of taking pictures of the sludge which forms a fine layer on Lake Macatawa, I set off last Tuesday to complete the task set before me. Tuesday was the first truly nice day of spring; the sun was shining which kept the clouds that had haunted Western Michigan for the last month at bay. Camera bags over both shoulders, I started my quest, walking north on Columbia Avenue to Macatawa River.

The rancid fragrance of the Holland Area Wastewater Treatment Facility wafted on the wind. I looked at the last Tuesday to complete which kept the clouds that had hafted spring; the sun was shining as long as mysterious rain. The water in the river proper was a muddy brown. That made sense, as it had rained the day before. I snapped a few pictures of whatever was in the water with both cameras.

Then I saw something new. There were two otters building a nest, in between the green and tan water. I also grabbed a picture of them before I left. I wondered what it was like to live in perpetuity.

Further down the path, I came across the first of several drain run-off pipes leading into the river. A simple steel pipe, embedded in concrete with a loose-fitting cap on the end, it looked like it was an overflow pipe. Water was flowing from it, but something about the situation seemed out of place. Perhaps it was the fact that everything this water trickled over was a hearty rust color. Dirt, garbage, rocks, plants, every thing. What was coming out of this pipe? I later wondered if it was related to the mysterious ‘rust dust’ that settled upon Holland and the immediate area a few years back.

Several pools of this water had formed, reflecting the late afternoon sun with an inedibility usually reserved for ectoic beetle shells. This intrigued me, so I moved closer to get a good picture. While I was walking over the dead foliage, I felt a bit like Luke Skywalker wading through the Death Star's garbage pit. From what I could tell, the pipe originated at the Wastewater Treatment Facility. I wondered how treated our wastewater really is.

Looking back the way I came, I noticed another pipe, this one concrete. It was slightly hidden by a rise in the topography. I inspected this one and found it to be emitting the tan liquid I saw collecting near the otters' den. I took some more pictures and moved on. I had my second encounter with wildlife as I saw two ducks sitting on the surface of the river. I was going to take a picture of them, but they saw me first and hastily left, crying furiously, what I can only translate as 'filthy human! filthy human!' I met them later on, digging for food amongst the suspiciously poisonous muck.

Continuing now to where River Avenue crosses the Macatawa River, I noticed a rather large fish that was camped out on the land, well picked over. More pictures of the fish and the marvelous array of litter and filth were stored in my cameras. As I crossed the bridge, I realized that litter forms a sort of a border between civilization (the bridge) and nature (the river). I made my way across the street to Windmill Park, which is opposite Pfizer. I still wonder what comes out of that large, concrete drainpipe that is well fessed off. The dock area of Windmill Park is almost completely covered in sludge. Most of the solid matter is made up of various pieces of trees and some garbage, all of which was covered in a film of something industrial.

Disgusted and hungry, as it was now six o'clock, I headed back to Hope. I could imagine a tour guide driving around town, commenting on how Holland has not only it's share of solid waste, but an abundance of liquid pollution combining for a truly squid-like effect.

My faith in humanity was restored when a girl in a white car rolled her window down and shouted 'Hey sexy' as I walked by. I doubt she's ever seen the grime that clogs Lake Macatawa.

The Wastewater Treatment Facility may filter out raw sewage and the like so that we don't immediately feel over dead from drinking the water, but can they catch all of the pesticides and fertilizers that Hope College and many individual residents like to pour on their lawns from spring to autumn? How about all the rock salt that is dumped on roads every winter? There's a whole lot more than that. We can't really avoid it either.

Water is essential to life, and tap water composes the majority of every drink in Phelps with the exception of milk. So I'm wondering: What kind of industrial sewage hell are we setting ourselves up for? Ooo reoccurring thought I had during my walk was that of the whole incident with GE and the Hudson River back home in New York State. Once in there, even by dredging or whatever your favorite form of industrial toxic waste removal is, it can only be shuffled around, but it will eventually find a home in someone's backyard. The only question is whose.

Photo Editor

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Hey Zipperheads! Let's rumble.

Amy- Sorry about the monkeys. Hope your back gets better. N

Maybe god is a plastic container.

That's the most emo thing I've ever heard.

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Ultimate teams advance to regionals

Both men's and women's ultimate teams place third at sectional tournament.

In the true spirit of the game, both the Hope College Men's and Women's Ultimate teams overcame muddy fields and solid division I opponents to win. Against MSU, Hope was temporarily confused by an unaired and ungentle opponent and fell behind early, being forced to play catch up for the rest of the game. In the semifinals against U of M, Hope once again fell behind by a score of 7-2, before rallying a 5-run before halftime. U of M gradually pulled away, but Hope missed several chances in the end zone that could have made up the difference.

"If we play really well, the keys are that we played together as a team," said men's co-captain Brad Johnson ('03). "It was the best we've ever played as a team, it was the first time this season we've had the whole team together for a tournament," said Clay Cressler ('03).

The sentiment was the same for the women's team.

"It was the best tournament I've ever been to with the women's team," said Sam Sandro ('02). "Although we didn't come away victorious against Calvin 11-4, University of Michigan B 11-2, and Western 8-4 (timedrop), but lost to MSU 11-4, and to University of Michigan A 11-5. Each team is looking forward to doing well at regionals, and toward next year's season. The men especially are looking to gain experience to make an even better run next year. They will only lose one senior, Tony Cappa ('03), this year and have several young promising players returning, but new members of the team, even people who have never thrown a disc before are big teams."

"I just want to have fun, and play well as a team. I don't think we'd have any problem getting into the top 8 at regionals," Johnson said. "It's a bigger tournament, just because it could end our season anytime. You want to go out and play really hard and make it your best effort. It's going to be tough, but I think on any given day, whoever wins is just whoever wants it more," Goupell said.

Flying Dutchmen baseball extends winning streak

BJ Maas's grand slam lifts Hope past Aquinas College

It is every little league player's dream to be able to hit a grand slam in the bottom of the ninth with two outs to win the game. Hope first baseman B.J. Maas ('03) may not have done that in little league, but that didn't seem to affect him as he approached the plate on Tuesday evening. With the bases loaded, Hope trailing 10-7, and the school's record winning streak on the line, Maas cranked a shot over centerfield, removing any doubt of whether the streak would continue or not, giving Hope an 11-10 victory.

The win put Hope's overall record at 19-3, while their conference record remains at 6-0 since Aquinas is non-conference.

The game turned into a slugfest from the very first inning, and the lead would change four times throughout the afternoon. Aquinas went up 2-0 in the first inning on two solo home runs. Hope would score a run in the second inning, then Kyle Trapp ('05) who picked up the win in the final inning. The Hornets lost an MIAA dual match against MSU and U of M.

"We're definitely an up and coming team, considering how we played against MSU and U of M. It just shows that we can play with the best of the best," Goupell said.

The sentiment was the same for men's tennis at Hope until I plan on dying or getting fired, or beat anyone soon, so it looks like there is only one way out of here," Gorno laughed.

The Hornets have won the MIAA title every since 1936: That's a total of 75 titles in a row, the most by any college sport. Kalamazoo has not been totally flawless in their winning streak, though. In 1962, the Hornets lost an MIAA dual match to Hope. The Dutchmen were unable to take down Kalamazoo in the conference championships, however, giving the Hornets a share of the title and allowing them to keep their record alive.

When K-Zoo takes the court against Hope today, they will be looking to take the first step towards their 70th title. That is, unless Gorno's Dutchmen have anything to say about it.

In his ten years coaching Hope tennis, Gorno has not been able to score a single point against Kalamazoo. His team enters today's match at 8-7 overall, with a 2-0 MIAA record.

"This is the first year that every person on the team believes they can break the streak," Gorno explained. "We understand that being mentally tough is the most important trait a team needs to have against Kalamazoo. In the past, they have always won the key points when they appeared, and I feel that if we win those key points, it's going to be a different result. The team is walking into the match tomorrow with the heart that they can do it...they can win.

ANCHOR ALL-STAR
B.J. MAAS

Maas's ('03) grand slam in the last inning gave Hope the win over Aquinas and put their winning streak at 17.