



# Shades of Green

Class of 1985

Spring 2014

## News from Our Classmates...

For this issue, we reached out to classmates the College believes have some connection to science and technology. We asked them to drop us a quick line, and let us know how and what they're doing these days, how science and technology fits into their lives, whether and how their science and technology interest started at Dartmouth (or where and how they were subsequently inspired). We invited them to share with us news of their family, what were their most recent cool vacations or other experiences, how they celebrated their 50th birthdays, etc. -- pretty much whatever struck them! Long or short, it didn't matter to us. And here's what we heard back:

**Holly Andersen '85** writes:

Well, with that nice invitation, how can I resist sending in an update (which I have NEVER done before)? I majored in neuroscience at Dartmouth. I am a cardiologist at the NY Presbyterian Hospital - Weill Cornell Medical College. I am on the board of the Michael J. Fox Foundation (past board chair of the research committee for 3 years). I am also on the board of Rockefeller University and Geisel Medical School at Dartmouth. Incredibly interesting how technology transforming medicine - I am particularly interested in wearable technology - to inspire healthier living and the big data it will generate. Married to **Doug Hirsch '85**. Daughter Alison 14, son Gregory 11.

**Christian Bean '85** writes:

I'm still practicing orthopedics in Montpelier, VT where I've been since I completed my fellowship in hand and micro vascular surgery in Seattle where I met my wife Jennifer. The science in orthopedics is ever expanding and fascinating, but the changes in cross country ski waxing, stone grinding, and training are just as fun for me and my son Walker who also cross country races for Green Mountain Valley School in neighboring Waitsfield. I've cross country skied every weekend since November 30 and am still going strong. Happy trails!

**Mike Clarkin '85** writes:

My wife, Sylvaine, and I have lived in Tampa now for nine years. Like most who have braved cold winters in New England (we were 5 years in Boston before this), we wonder why we didn't do this sooner. There is a good Dartmouth club here, but no other '85s, so I don't bump into many people from my years in Hanover. I did go to the 25th last year, and played some beer pong in the basement of SAE with **Rich Stoddart '85, Mark Koulegeorge '85, and Keith Goggin '85**. Not much has changed - I'm still terrible at pong, and the basement of SAE smelled exactly the same. I make an annual trek to Hanover every January, to help out Prof Gregg Fairbrothers at Tuck with one session of his Entrepreneurship course - Marketing for Entrepreneurs. This year was another great class of students, and my 10th anniversary. Fun to come back as the teacher instead of the student. Our kids (Kelly 14 and Colin 9) are in the peak of their extracurricular activity years, a lot of Dance and Soccer. We laughed recently when my son said he wanted to go to Dartmouth - he's never even been to NH! We'll see how well the Florida warm blood holds up when we get up next time for a visit.

**Hal Espy '85** writes:

I was a double-major in Computer Science and Geography, and my senior fall I was a co-op at Intergraph Corporation in Huntsville, Alabama - not far from my hometown of Montgomery. After graduation I returned as a full-time employee and I remain there nearly 29 years later (though I did take a short educational leave-of-absence to get my M.S. in Geography from the University of South Carolina). My hope had been to find a place to work on what we called "computer mapping" at the time, what these days we'd call "Geographic Information Systems". And I did.

Intergraph has been a major player in the Geospatial software sector since the 1970s. It got a great boost when it was purchased three years ago by Hexagon AB, which is the parent company for 50+ (and growing) other companies, two of the largest of which are also name players in the Geospatial sector - Leica GeoSystems and ERDAS. Earlier this year, Hexagon broke our Geospatial teams and products out into a new

## COMING SOON

30th Reunion - June 2015

Hexagon Geospatial division consisting of folks from Intergraph in Huntsville, ERDAS in Norcross, Georgia (Atlanta area), along with development offices in Hyderabad, India; Lodz, Poland; Vienna, Austria; and Perth, Australia.

One cool thing is that when we merged with ERDAS, I discovered a fellow classmate there in **Max Martinez '85**, who was also a Computer Science major – but we didn't know one another in Hanover! Max and I continue to cross paths periodically. Another Dartmouth alum, Bruce Westcott '72, also worked with us until late last year.

I came up through the software development arm of the organization, and have spent my career to-date managing development for our core GIS products from the VAX through Unix to Windows. For the last 6 years I've been Technical Director for our geospatial platform software, the core technologies shared among our various software product lines. I have now returned to our flagship GIS product line called GeoMedia.

I live with my family in Madison, an amazing community of 45,000 on the edge of Huntsville, just 10 minutes from Intergraph. Huntsville is the "Rocket City", home of Marshall Space Flight Center, Redstone Arsenal, and an enormous research park full of companies in the space, defense, and technology sectors (we're told that the Huntsville metro area has the highest per capita concentration of engineers in the country). Madison is regularly ranked among the best small towns in which to raise a family, and we agree!

My wife Yvonne is a Huntsville native and was an '85 electrical engineering graduate of the University of Alabama at Huntsville. She worked in hardware and software at Intergraph for 8 years before retiring to raise our two sons. Thomas is 23, graduated from Samford University in Birmingham with a major in International Relations, minors in Political Science, Geography, and German, and 2 years' study of Russian. He is now a first-year graduate student at the University of Pittsburgh, working on a Masters of Public and International Affairs and a certificate in Russian. He hopes to intern in Moscow in the summer. Isaac is 20, and is a sophomore at Samford working on a Finance and German double-major. He'll spend this summer in Germany.

Yvonne and I are currently downsizing for our empty-nest years, prepping our home of 14 years for sale, and building a new one a few minutes away. Yvonne stays busy volunteering; making homemade soaps and other skin products; appears in the occasional local television commercial; takes care of our two rescue beagles; and has recently resumed our genealogy hobby. We are both very active in our home church of 27 years, Trinity Baptist

It's coming up on graduation season! Post your high school, college, grad school graduation pictures on our Facebook page! Congratulations to all our new graduates!



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**- Dartmouth Class of 1985 -**  
and  
**Post your story and pictures.**

Church in Madison. I also act as Treasurer for the Alabama Cooperative Baptist Fellowship. We enjoy travel, both at local vacation haunts in Alabama and throughout the south, and those farther afield. In the last 7 year we've enjoyed a 20th-anniversary Aegean cruise to points in Greece and Turkey, and family visits to England, Israel and Jordan, and Hawaii. The boys traveled with me last summer on a business trip to India, and I just returned from my 8th trip to our office there. We also really enjoyed the Dartmouth Aires reunion last April following the Sing-Off!

**Annette Harris '85** writes:

I'm a dermatologist in private practice in my hometown of Houston, TX, married for 20 years to my artist husband Jim Cox, and we have a cool and wonderful 11-year-old son, Owen. Our favorite thing is to spend time at our cabin in Estes Park, Colorado, about a 5 minute walk from Rocky Mountain National Park, with its endless hiking trails and incredible beauty. Love cooking, hiking, literature, skiing, cocktails, art, friends. Used to love rock climbing until my disability insurance excluded climbing injuries. Did I mention food?

Regarding science/technology, I went to Dartmouth as a pre-med and ended up an art history major who still went to medical school -- thank goodness for a liberal arts college. Favorite Dartmouth science-related memories: evenings studying woodcock behavior for Biology class in animal behavior with snacks and conversation at the professor's house after. Lab accident in organic chemistry, synthesizing DEET, spilled all over my lab book which smelled the rest of the quarter (but I never got mosquito bitten in chemistry lab). I can still smell it now. Am proud to be able to say I owned a 128K Mac, which gave "memory full" messages with just a term paper. Remember what a miracle it seemed? Pre-internet searches of those medical index books..... Bio 5 (is that what it was called?) in Dartmouth Hall--how lucky were

we all that our largest class must have had about a hundred people? And the all-nighters .....

Can't think of Dartmouth and pre-med without thinking of my wonderful departed friend, roommate and classmate **Roma Sharma '85**, whom I will never stop missing.

Looking forward to reunion next summer....



**Caduceus**



**Rod of Asclepius**

### Science trivia:

Many historians believe that the Caduceus was mistaken for the Rod of Asclepius which led to nearly universal use up until the early 1900s. Today, the Army Medical Department and the American Medical Association use the Rod of Asclepius as the universal symbol of medicine but many commercially based organizations use the Caduceus

#### Caduceus

Hermes was the god of travel, trade and thievery, with little to connect him to medicine. However, he was also a messenger between the gods and humans and was said to bring peace between the two. In one version of Hermes' myth, he is given the staff by Apollo, the god of healing. In another version, he receives the staff from Zeus, the king of the gods, and it is entwined with two white ribbons, which later become serpents.

#### Rod of Asclepius

Asclepius, the son of Apollo and the human princess Coronis, was the demigod of Medicine. His staff is considered the earlier and more legitimate symbol of medicine. According to mythology, he was able to restore the health of the sick and bring the dead back to life.

**Nancy Kopans '85** writes:

Hi, I live in Manhattan and am General Counsel of ITHAKA (named after a poem, not the town in upstate New York), a not-for-profit organization that focuses on transformative uses of new technologies in higher education through three services: Portico, Ithaca S+R, and JSTOR, a research database known to most college students and faculty throughout the world. I fell into this in the late '90s out of curiosity about the Internet and its power to deliver information and transform learning. My experience at Dartmouth as an Earth Sciences major made me more attuned to and curious about the ongoing changes around us, which no doubt made me receptive to a technology-based organization that is part of the change happening in the academic world. And, it helped being part of the generation at Dartmouth that was first to be able to purchase a PC!

*There is magic in technology and having the world at our fingertips... but there is also magic in connecting with our unplugged selves, the people around us, and the outdoors...*

On the personal side, I have two daughters, ages 16 and 12, and enjoy travel that is often inspired by my Earth Sciences major, with a recent trip to Big Bend National Park in West Texas, where the extensions of the Appalachian Mountains and Rockies meet and make for some crazy geology. In my spare time, of which there is not a lot, I've continued with an ongoing love of the outdoors, with regular trips to the White Mountains and much time spent in the Berkshires in western Massachusetts and am grateful to the Earth Sciences department for helping to make the natural world come alive, a way of experiencing the world that I've tried to convey to my children (it's hard to pass by a road cut without thinking about it...). I've also dabbled in various activities: long-distance open water swimming, including as part of a four-person relay swim around Manhattan; and stand-up comedy, as a total amateur. And, I continue to enjoy the breadth of art of culture in NYC, particularly with regular visits to the opera.

For my 50th, I went on a "Mindfulness" retreat to Costa Rica with a group from my very groovy synagogue and learned invaluable lessons about the power of meditation, presence, and ways of being that resonate and seem to be an antidote to our full-on, technology-fueled lives. There is magic in technology and having the world at our fingertips, which is part of what the services of my organization deliver, but there is also magic in connecting with our unplugged selves, the people around us, and the outdoors, things I learned and lived strongly at Dartmouth and through the close-knit and outdoors-focused environment of the Earth Sciences department.

**Eric Libre '85** writes:

I don't think I have checked in with you guys since our 25th reunion. Things are going well with me and my family. Our son Michael just got accepted into the Dartmouth Class of 2018. He is thrilled and I am just a little jealous thinking about all the great experiences that await him. On the science and technology front, I am a Pulmonary physician. I knew I wanted to go into medicine after working in an ER during an "away" Winter term. The job was in an ER just outside of Washington, DC and I realized rapidly how much I liked patient care and the intellectual challenge that medicine provides. Without the D-plan, I never would have been able to have that winter term work experience.

I met my wife at the University of Michigan where we were both doing our residency training in the early 1990's. We have three teenagers. My wife is on faculty at Georgetown and I am the chief of the Pulmonary division at Inova Fairfax Hospital, a large teaching hospital in the Virginia suburbs of DC. There are plenty of administrative hassles in modern medicine, but patient care and teaching keep the job enjoyable and intellectually stimulating and I feel very lucky that my early experiences at Dartmouth encouraged me to go into medicine. I still get together frequently with **Mark Allen '85**, Joe Piacentini '83, Matt Huggins '86, Erik Warga '86 and Dave Slaughter '88, all fraternity brothers who have ended up in the DC area.

**Jake Lowenstern '85** writes:

I live in Silicon Valley, along with a zillion other Dartmouth grads, but have the atypical science and technology job as a volcanologist for the US Geological Survey. My main focus is Yellowstone, where I travel 3-4 times per year. The research is really fun (mostly on the gases that come out of the ground), but I do get a bit tired of all the hysteria regarding imminent eruptions of the "supervolcano". It's rather sad seeing what's become of the news media in the wake of social media. People are left to sort out fact from fiction, and many fail miserably. My wife and I have two girls (10 and 13), and all three spend much time doing Hawaiian Dance with one of the local halau in the Bay Area. Our last best trip was a week at Big Bend in west Texas. Awesome. Did I turn 50?

**Ed Mackey '85** writes:

After Dartmouth, I attended Vanderbilt Medical School where I met my wife, Susan. We did a "couples match" for residency in Charleston, S.C., ob gyn for Susan and orthopedic surgery for me and then a fellowship in spine surgery in San Francisco. We moved back to Nashville where I am partner in a 50 person orthopedic surgery practice and my wife a partner in a small 5 person Ob-Gyn group. I have had a wonderful career, blessed with great partners and colleagues.

The hospital that I am based out of is a large teaching institution formerly affiliated with Vanderbilt and now more closely aligned with UT. During my first ten years of practice, I had the opportunity to work with the neurosurgery residents from Vanderbilt doing complex spine surgeries. Although the residency program has changed, I have continued to work with several of the neurosurgeons as part of a multidisciplinary spine program. As this has developed, we are able to do more complex reconstructive spine surgery. We meet regularly to review studies, discuss patients, generate plans to best help out patients and then collaborate on many of the bigger operations. Some days are very hard, you come home asking yourself and your spouse why do I keep doing this, but each day you are given the opportunity to assist someone that needs help and that is a powerful motivator. There is no question that the practice of medicine has gotten harder over the past few years due to numerous factors. This has only made it clearer to me that all I have ever wanted to do was take care of patients. Susan has a busy practice and is asked regularly when she plans on giving up delivering babies. Her standing response is that she will quit medicine when she stops delivering babies.

*...but each day you are given the opportunity to assist someone that needs help and that is a powerful motivator.*

We have 2 children, Hannah 20 and Mac 17. Hannah is a sophomore at Furman studying political science and history. She will be doing an internship with the EU in Brussels this fall. We are starting the college search for Mac who is also playing soccer for a Tennessee team that has qualified for both regional and national leagues. Among stops was a weekend soccer ID camp at Dartmouth (read tryout) last month. We stayed at the Hanover Inn, toured the campus and the ski area. I passed on the opportunity to eat at EBAs with the coaches, team, and campers. The strength and conditioning coach spoke army ranger. He talked about training exercises where the players learn about pushing themselves when they are mentally and physically tired, working on just a few hours sleep. I leaned over to Mac and said, "that sounds like your mom's call last night, don't worry it's all good".

**Bruce McLay '85** writes:

I'm an engineering project manager and mechanical department head at a consulting firm responsible for sustainable high technology building designs nationally and globally, focusing on laboratories and hospitals. Spent my 50th skiing in Colorado!

**Elise Miller '85** writes:

Having been a history major at Dartmouth and later focused on education and adolescent psychology in graduate school, I never thought that my daily professional vocabulary would include things like “endocrine disrupting chemicals” and “the exposome”. Nor did I expect that I would be asked to speak regularly at scientific research conferences, where the other presenters are epidemiologists, toxicologists, neuro-teratologists, endocrinologists, and the like. But over the last 20+ years, I’ve been steeped in environmental health sciences -- first as the founding director of a private foundation that started investing in environmental health initiatives, then as founding director of my own national nonprofit working on children’s environmental health issues, and currently as the director of an international partnership, the Collaborative on Health and the Environment. Because I primarily work to translate the emerging environmental health science into stronger public health policy as something of a midwife, I’ve had to give myself a crash course of sorts in fields like molecular biology and endocrinology. Now my colleagues tease me that they should just give me an honorary doctorate because I know as much as anyone in this field — one that has grown exponentially in the past couple decades. I certainly beg to differ as I haven’t take a course in the “hard sciences” since AP chemistry in high school, but apparently, I now have “street creds” in certain research circles despite my social sciences/humanities leanings. This is all to underscore why a liberal arts education is essential in our society. We need places like Dartmouth where future generations can be taught how to think critically in ways that can be applied to any professional pursuit, even in disciplines quite different from our undergraduate majors. To me, this kind of intellectual dexterity and creativity is imperative if we are to address the extraordinarily complex challenges our world faces today. And then there are the fringe benefits of my current work, such as getting to go to an international research conference on endocrine disrupting chemicals at a resort in Tuscany, Italy this May...who knew?

**Herb Philpott '85** writes:

I’ve been in the technology business ever since I graduated from Dartmouth with a Government degree. They say you can do anything you want with a Liberal Arts degree and I consider myself living proof. I was an early adopter of the Macintosh computer when it came to the Dartmouth campus in 1984, and my first job after graduation was with General Computer, Inc., in Cambridge, MA (across the street from Lotus). General Computer invented the HyperDrive, the first internal hard disk for the Mac. You could get a massive 10 megabyte (yup, megabyte) hard disk for your Fat Mac (512K) for about \$2200 (at today’s prices that much storage would cost less than 1/10th of a penny). After General Computer I

moved to California to take a job working for Steve Jobs at NeXT, Inc., the company he created after being forced out of Apple. NeXT got out of the hardware business and a lot of people left including me, but I ended up at Apple for six turbulent years. My next gig was with the Internet backbone company BBN Planet which became GTE Internetworking which became Genuity. Then in 2002 I landed in Program Management at Teradyne, the semiconductor test equipment company, where I’ve been for the past 12 years.

It’s been a wild ride in the technology business, and there’s no sign of slowing. With the world of computers, smart-phones, and tablets accelerating past 2 billion units per year, I compare my experience with the earth-shaking technology changes my grandmother experienced watching things like electricity come into the home, and the invention of radio and television. My 21-year-old daughter once asked me what life was like before computers. I certainly had a much different childhood experience than she did (she had Apple computers in her day-care program at Apple). And today I have a 2-year old who is far more proficient than her grandfather with an Amazon Kindle, and she can’t even read!

**Jim Sapienza '85** writes:

I am based in Issaquah, WA with my wife, Kathryn and 2 sons, Hunter and Jenner. The family takes health seriously and engages in pilates, yoga, and running daily. Issaquah’s foothill trails rival those of the Hanover plain and Connecticut River valley. I enjoy this setting as much as Dartmouth.

I became interested in healthcare prior to attending Dartmouth -- and my interest has taken me into a career focused on the health system improvement in America. Whether you agree with the politics or not, the changes in improving the access and quality and lowering the cost of healthcare that are occurring now, are much needed. I believe that those of us who are doing the work in healthcare can effect those changes, if the political, regulatory and legal factors provide the environment to make those changes. I currently work with healthcare workers in all roles and specialties in implementing the scientific method to effect small tests of change to improve both process and quality in healthcare. I do this as a healthcare leader based in the Puget Sound region at MultiCare Health System.

I have some involvement in DEN (the Dartmouth Entrepreneurial Network) and I have an interest in helping develop a similar network for health and healthcare. Are you interested?

[Editors’ Note: email Jim at [jsapienza85@hotmail.com](mailto:jsapienza85@hotmail.com) if you want to connect on this topic.]

**Pam Talley '85** writes:

May not have ever sent an update... but am excited about a coming transition -- a career shift, if not complete change. Was an English major at Dartmouth trying to avoid (for a while) being one more in the family line of physicians. Did end up in med school and worked happily as a family doctor for 20+ years. I did then find myself yearning for something new. Spurred on by a physician friend's mid-career experience in the Epidemic Intelligence Service (investigating, among other things, a salmonella outbreak traced to pet store Guinea pigs), I went back to school and will finish my MPH in May with a concentration in Epidemiology. (From my then 16 year old son: "you mean you are paying money to go back to school to make less money?" Yep...) Most exciting of all, I will be starting a 2 year fellowship with the CDC as an Epidemic Intelligence Service Officer in July. I aim to spend the second half of my professional life with new challenges and exciting new material to work with at a population level instead of in the exam room. Feel lucky to be able to translate skills from my clinical career into what feels like a completely new field.

**Laura Yecies '85** writes:

Not much on the science and technology front. I do work in high tech -- most recently I was CEO of SugarSync for 4 years and CEO of Catch until September when I sold it to Apple. Now I'm advising tech startup founders while I decide on my next opportunity. I've been in high-tech since finishing grad school in 1988. I took 2 programming classes at Dartmouth -- was interested in technology as a user but at that time thought I wanted to go into international relations and majored in Government.

On the personal side, kids are growing up and doing well. Our oldest son Derek is a neurosurgery resident at Stanford, married to his college (Princeton :-()) sweetheart and we joyfully welcomed our first grandchild 15 months ago. Second son Todd is about to start a urology residency at University of Pittsburgh, is married to his high school sweetheart. Our daughter Margot is a '15 at Dartmouth majoring in theatre and music. She is soon to go off on the drama FSP to London - I think I want to go on FSP too but I was not invited. Our youngest is deciding on his college options. My husband Steve '84 is enjoying his work at Orbimed Advisors, a private equity and venture firm where he is leading their HealthCare IT investments. I've been enjoying the increasing number of Dartmouth folks here in the Bay area and our very active club.

**Jeff Weitzman '85** writes:

I never expected to spend a career in cyberspace. I was a Philosophy major at Dartmouth, a pre-med who ultimately decided to go to law school instead of med school.

I went on to practice law at a big firm in New York for a few years, and expected that once I'd worn out my welcome at that white-shoe associate grinding machine, I'd settle into practice at a small to mid-sized firm and make a career of it. Looking back, though, the seeds were planted early. Even in high school I'd been fascinated with what you could do on the mainframes we had access to. At Dartmouth I learned to take advantage of Kiewit, and our junior year, those first 128K Macs changed everything. Here was a creative and computational power sitting on my desk that in some ways had no parallel in human history. I don't think, in light of 30 years of hindsight, I'm exaggerating. OK, maybe the printing press....

The next piece of the puzzle fell into place a few years later, in law school. I signed up for some crazy thing Citibank was offering called online banking. It came with a free 300 baud modem. If you're not familiar with the term, my computer is currently connected to the Internet at speeds approximately 200 thousand times faster than that. But that old modem was fast enough to help me discover the online world -- a world then consisting of BBSs (Bulletin Board Systems) and other text-based systems like CompuService and GENie. I joined a group of techno-nerds that helped start a new online service with a graphical interface, and was soon exploring fledgling concepts like virtual worlds and virtual community, and learning that people could not only communicate and share information online, but actually form relationships across this new medium that William Gibson had only recently dubbed "cyberspace."

*...those first 128K Macs [at Dartmouth] changed everything. Here was a creative and computational power sitting on my desk that in some ways had no parallel in human history.*

In 1993 I left the law firm to help start an online community for lawyers called Counsel Connect, eventually becoming its COO and overseeing its technical transformation from proprietary, X.25-based online service to a Web-based service running on a heavily modified beta of Netscape Publisher 1.0. The company we hired to do the work back in 1996 was BBN, a name some of you may recognize as intimately associated with the creation of the Internet. (I recommend the book, *Where Wizards Stay Up Late: The Origins Of The Internet* for an inside look at that history.) By then, of course, companies like Yahoo! and Excite had made advertising on the WWW seem like a viable business model, even as proprietary networks like AOL and MSN still dominated the online world, and the gold rush had begun.

By 1998 I had landed at a small Internet promotions firm that within a few weeks of my joining was acquired by

Yahoo, resulting in a move to California and Silicon Valley. Being at Yahoo in '98, when the company had just a few hundred employees but was growing at an incredible rate, was a unique introduction to the culture and phenomenon that was Silicon Valley in the early days of the rapidly expanding Internet Bubble. Yes, in many ways it was a 24/7 party driven by unrealistic expectations, Ponzi-like advertising deals, and wa-a-ay too much coffee, but the sense that the world was changing and that we were driving that change was palpable and exciting, and in the end, I believe, accurate. Every day I was surrounded by unbelievably smart people (far smarter than I) with boundless energy and a sense of mission and purpose and endless possibility that was highly contagious. It was a lot like Dartmouth, in fact, right down to the epic partying.

In 2002 I left for another small startup, a company developing a way to print grocery coupons at home. From the sublime to the ridiculous, it would seem, but in many ways Coupons.com was more representative of the real work of Silicon Valley than Yahoo was. While Yahoo painted in broad strokes, Coupons, like many other Silicon Valley companies, saw a specific inefficient business process and relentlessly pursued its disruption. "Disruption" is a cliché, at least here, but it remains the basic work of the technology world, whether hardware, software, or bioware: find something that can be done better, more efficiently, cheaper, faster, or all of the above, and use technology to make it so. It took many years, but eventually most of the major brands were distributing coupons through our system. I left in 2009 with the company already getting a bit too big for my comfort zone, and spent a year at a non-profit that used technology to make it easier for parents to get the information they needed to make good decisions about what books, movies, TV shows, and other media were appropriate for their kids.



1984 Mac

But once a startup guy, always a startup guy I suppose, and I joined some former Yahoo colleagues at a little company developing an ad technology system that could target

## SAVE THE DATE! 30th Reunion June 18-21, 2015

advertising in real time. In just 10 years, the relatively simple ads we offered at Yahoo had evolved to this: our software agents on the real-time ad exchanges would receive an offer to bid on an ad impression, an opportunity that winked into existence the moment someone, somewhere, called up a page on a website, before that page even had time to appear in their browser. Along with other such recipients, our system would evaluate what we knew about the page being created and the person it was being created for. We considered a variety of ads that could be displayed and calculated the odds that this particular consumer would be interested enough to respond, and factored in how much revenue we'd generate if they did. Based on all that data we'd decide on a bid and communicate that back to the exchange. If we won the impression, we'd call up the ad and send it to the user's browser, to be displayed along with the other content from the website hosting the page. All of that, from first request for bid to delivery of the ad, had to take place in 300 milliseconds or less. The machine-learning algorithms our engineers developed churned through the results and constantly improved the bidding algorithms. The era of Big Data had begun.

The ad company was sold to AOL last year (the old dinosaurs still roam the datasphere!) but I had already moved on to start a new company focused on the intersection of two new technology hot spots: Mobile and the Internet of Things. Our company, Go Factory, developed a platform that could connect smart devices, sensors, machines, back-end systems, and most importantly, people, into a seamless messaging system. This was my first time actually co-founding a company, and it meant a whole new set of experiences and learning a whole new set of technologies. I find myself once again staring at new possibilities, and pitfalls, as we work to build a world where practically everything can talk to everything else. If you think the change wrought by the World Wide Web was profound, wait until you see what the next 10 years brings!

I've recently stepped back from day-to-day responsibilities at Go Factory and have been advising a few other startups exploring businesses driven by other new technologies, from 3D printing to clean energy and rapidly-evolving battery technology. Sometimes it's like living in a science fiction novel, really. So much of what I see happening around me was predicted long ago, but the reality is still astounding. I'm humbled to be involved in even a tiny part of it, and watch the wizards stay up late and create the future.

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## From our Guest Editors...

In keeping with our science theme, we asked a current student to share his Dartmouth science experience.

### The Research Experience

by Ryan Tibble '14

It was early in my childhood that the young scientist in me was set loose upon the world. It started with random things from our kitchen that, when mixed, always ended as an unsightly brown paste my mother had to force down the sink. As time passed my experiments became bolder, peaking in my junior year of high school when an explosive concoction of aluminum foil and drain cleaner left a crater in our backyard and consumed what was left of my mother's patience. But my mother's stern scolding did not impede my love of science and I came to Dartmouth knowing that I wanted to major in the sciences.

I have always been fascinated by chemistry and was pretty confident that I would pursue it as a major before I even took my first class at Dartmouth. I enrolled in a general chemistry course with Professor Jon Kull my freshman fall and even though it was challenging I loved the class and was convinced I would be a chemistry major. Coincidentally, Professor Kull was also my freshman advisor and one day I found myself in his office talking about a summer research internship opportunity that had fallen through when he suddenly asked if I was interested in working in his lab over the summer. A bit shell-shocked, I stammered through a sentence accepting his offer and immediately called my parents with the same excitement I had when I received my Dartmouth acceptance letter.

It is now nearly three years later and I am still a member of Professor Kull's lab, continuing what has been one of the most challenging yet rewarding experiences of my time at Dartmouth. The lab is devoted to studying various proteins and using structure to characterize their biological function. Biochemistry is something I had not been exposed to before starting research but it has been fascinating to better understand the complexities that make life possible. This is especially impressive on a cellular level since a variety of processes are acting simultaneously to complete a specific task. For a stunning visual of many of the components at work I recommend going to YouTube® and searching for "The Inner Life of the Cell" (It is well worth the eight minutes!).



More specifically, my work has focused on a single protein that belongs to a family of proteins collectively referred to as kinesins, which in turn are part of the larger molecular motor class of proteins. Kinesins are responsible for moving cargo through the cell by travelling unidirectionally along microtubules, which serve as a sort of highway system. Even more incredible is that kinesins move by taking individual steps, thus walking their way from one end of a microtubule to the other. I work with a kinesin-related protein known as Costal2, which has many of the characteristics of other kinesins but there are several striking differences that alter its function. Costal2 is a part of a signaling complex that has been implicated in embryonic developmental diseases when its functionality is altered. Thus, Costal2 could serve as a possible drug target that might prevent such diseases.

*I have also had the ability to develop my own hypotheses and then design experiments that can test whether or not my first thoughts were correct.*

Professor Kull has given me an extraordinary level of independence in exploring Costal2 and has encouraged me to utilize an array of different techniques in the study of the structure of Costal2 and its cellular function. With such a high degree of independence, I have also had the ability to develop my own hypotheses and then design experiments that can test whether or not my first thoughts were correct. I have definitely found myself in seemingly endless cycles of repeat experiments and my frustration has occasionally become apparent. Despite the setbacks, I am still just as excited as I was on my first day in the lab knowing that the journey to solve the mysteries of Costal2 lies before me and each new experiment provides me with a small piece of the puzzle.

Dartmouth has presented me with a unique opportunity to immerse myself in research outside of the classroom and I believe that it has greatly enriched my time in Hanover. And now as I sit down to write my thesis, I am astounded at how much I have learned from working with Professor Kull and humbled by how much we still do not know about the microscopic world that gives us life. The inner scientist of my childhood has evolved into a more mature form but the desire to explore the world around me has grown more insatiable, and for that I cannot be thankful enough for my time at Dartmouth.

## News from the Wire...

### Dan Fagin '85 earns Pulitzer for Non-Fiction

[Excerpt from *The Dartmouth*]

Fagin, a professor at the New York University Arthur L. Carter Journalism Institute and former editor-in-chief of *The Dartmouth*, won the prize for general non-fiction for his book "Toms River: A Story of Science and Salvation." The book, published in March 2013, investigates a New Jersey town where decades of toxic chemical dumping led to high rates of childhood cancer and tells the story of its citizens.

Twice a Pulitzer finalist for his work as an environmental writer at *Newsday*, Fagin began working on "Toms River" in 2006 and conducted over 100 interviews. Not everyone in the town immediately welcomed the prospect of a book, as many wanted to move on from what they viewed as a black mark in their town's memory, he said. As he spent more time in Toms River, citizens became more comfortable with the idea. "They don't want to feel like what they went through was for nothing," Fagin said. "I think they see the book as a way of preserving their legacy so that other people can learn from it, including their own kids." Reviews were overwhelmingly positive, as critics found that the book turned normally staid scientific concepts into a thriller.

### Sue Finegan '85 elected President of the Association of Alumni

At their annual meeting on March 15, the Association of Alumni (AoA) announced the results of the 2014 election of a new AoA Executive Committee:

President: **Susan Finegan '85** (8,149)

First Vice President: C. Alec Casey '88 (8,118)

Second Vice President: Robert Higgins '81 (8,156)

Secretary-Treasurer: Martha Beattie '76 (8,177)

### Jay Berkow '85 directed *Into the Woods*

Director Jay Berkow's goal is "to make it human and to make it intimate," he said. The production will be in-the-round, with a "very environmental set" by David Kyhn. "The audience coming into the theatre will feel like they're in the woods with the actors," Berkow said.

*Into the Woods* played at the Kalamazoo Civic Theater in Janaury.

**CONGRATULATIONS ALL!!**

# News from Our Officers...

Greetings All! Happy Spring! After the tough winter that so many of us faced these past few months, I hope that this note finds you enjoying warmer weather, green grass and lots of beautiful flowers.

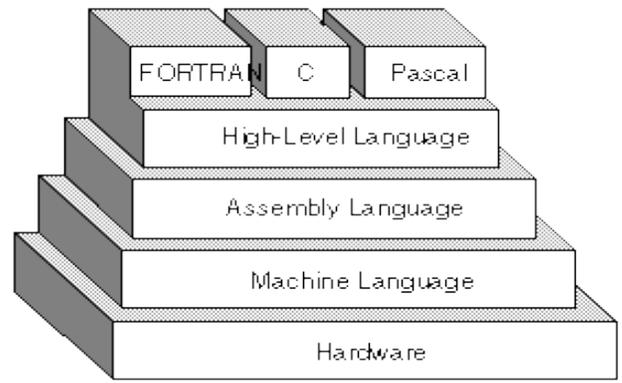
Lots of great things going on with the Class of '85. I am thrilled to announce that Todd Cranford, Joe Riley and Rebecca Osborne have all agreed to Co-Chair our 30th Reunion. I can't tell you how grateful I am that we have such a terrific team in place to help make our 30th a reunion to remember. They are already working diligently and will want (and need) the help of many of you to make the Reunion a great success. Stay tuned for their outreach and thanks in advance for doing what you can to be a part of this fun milestone reunion celebration.

I am also very excited to report that the Class of '85 Executive Committee, under the guidance of our Class Projects leader **Linda Blockus**, has agreed to contribute to two initiatives: Dartmouth Partners in Community Service (DPCS) and the Center for Professional Development (CPD). DPCS is an internship program run under the auspices of The Tucker Foundation. CPD is a new internship initiative that focuses on experiential learning opportunities. The Class of '85 is an inaugural funder of CPD. Our participation in these two programs gives us the opportunity to mentor students and participate in forming program policies. Learn more about our class projects on Pages 11-13.

As the Dartmouth Fund celebrates its 100th year, **Gaby Guise** and **Joe McGee** continue to make calls, write letters and work hard to get all of us to give back to the College that has given us all so much. Any and all contributions are deeply appreciated. Also, you can now pay your class dues (\$85) online through our class website. Go to [www.dartmouth85.com](http://www.dartmouth85.com) and click on "Pay Dues". Class dues allow us to continue to support mini-reunions throughout the country, create and fund additional class projects, and do preliminary work on the Reunion.

As always, please do not hesitate to contact me at [vhartman711@gmail.com](mailto:vhartman711@gmail.com) (or any of the members of the Executive Committee) if you have comments, concerns, questions or just want to say hi.

Peace  
Valerie Hartman



## 50 Years of BASIC at Dartmouth

At 4 a.m. on May 1, 1964, in the basement of College Hall, Professor John Kemeny and a student programmer simultaneously typed RUN on neighboring terminals. When they both got back correct answers to their simple programs, time-sharing and BASIC were born. Kemeny, Professor Tom Kurtz, and a number of undergraduate students worked together to revolutionize computing with the introduction of time-sharing and the BASIC programming language. Their innovations made computing accessible to all Dartmouth students and faculty, and soon after, to people across the nation and the world.



## Seeking Mini-Reunion Chair

Since Joe Riley has taken on the role of co-chair of the 30th Reunion, we need a new Mini-Reunion Chair.

Interested?

Contact Valerie at [vhartman711@gmail.com](mailto:vhartman711@gmail.com)

# Class Project Update

Linda Blockus '85, Class Projects Chair

The Class of '85 Executive Committee is pleased to announce our involvement in TWO class projects. Although similar in nature (supporting students during leave-terms), one program has a successful track record of 20 years (Dartmouth Partners in Community Service) and the other program (Center for Professional Development Student Internship) is brand new. We are proud to announce that the Class of '85 is the FIRST class to adopt this program for a class project!

In March, Steve Mandel, Chair of Dartmouth's Board of Trustees wrote to all alumni via email. He noted:

The two centerpieces of President Hanlon's academic vision are increasing experiential learning (learning by doing) and driving interdisciplinary teaching and scholarship around a number of the world's most pressing issues. While experiential learning is hardly new to Dartmouth, both within the undergraduate and graduate school curriculums and through service and extracurricular activities, there will be renewed focus on this form of learning.

The new Center for Professional Development (CPD) Student Internship program is a direct result of President Hanlon's priorities and we are so happy that our class gets to kick start the program! In a thank you note to the Class dated April 7, 2014, President Hanlon wrote:

Thank you so much for your wonderful gift to the Center for Professional Development. Your thoughtful generosity will enable our talented students to pursue the best learning experience possible, regardless of their financial need. In support of Dartmouth's mission to nurture future generations of

leaders, I've made experiential learning one of my highest priorities. The Student Innovation Center, Rockerfeller Center's Public Policy Institute, and an ever expanding array of internships, like the one you'll support, represent just a few of the ways we're encouraging students to take their learning beyond the classroom in acquiring the skills and experiences that will help them change the world. I'm so appreciative of our support for this crucial area of student learning, and for your dedication and leadership on behalf of our alma mater.

Our Class treasury has donated \$4000 to the CPD Student Internship and \$3600 to the Dartmouth Partners in Community Service (DPCS) project, enabling us to support one student for each program for one leave-term each. As we move forward with our involvement in both programs, we hope that class members will opt to make direct donations to our class project funds so that we may support more current undergraduates in exploring and pursuing their passions during leave-terms. In future newsletters we will profile students who have benefited from these experiential learning programs. Additional information and details on the each of the programs are provided below, including ways for you to become involved, beyond donating your dollars.

## Carni-Vail 2015

Join **Judy Stein '85** next winter for an all-Dartmouth mini-reunion in Vail, Colorado.

When: February 27 - March 2015

New for 2015:

Racing on Saturday, February 28th.

Plan ahead to be in Colorado in 2015!

CLASS PROJECT

## Dartmouth Partners in Community Service (DPCS)

DPCS was begun by the Class of '59 and is now a project that has been adopted by 20 classes, including the Classes of '86, '87, and '88. Currently ~40 students/year are supported through this program, which is administered by the Tucker Foundation. Undergraduates who plan to spend a leave term engaged in a "direct service project that contributes to the welfare, development, and fulfillment of other human beings" can apply for funding. "The DPCS program allows Dartmouth students to invest in their civic growth, personal growth and liberal education by participation in full-time, leave-term community service internships." Information can be found at <http://www.dartmouth.edu/~tucker/funds-grants/dpcs-internships/>.

In addition to the community service engagement, DPCS interns are also matched with a Dartmouth alum from a participating class to serve as a local mentor. This is a unique aspect of the DPCS program compared to other service learning experiences at other institutions. Alumni mentors meet with the DPCS intern at the beginning, middle and end of the internship to discuss the student's internship goals and objectives, their plans, progress and challenges, and evaluate the experience. Mentors provide support as needed, in person, by phone or by email. Mentors need not be involved in the community service agency, but should be located geographically near the site of the internship. Serving as an alumni mentor is a great opportunity to connect with a current Dartmouth student and provide friendly guidance and support.

Past organizations that have hosted a DPCS intern include the Street Level Health Project in Oakland, California, the Staten Island LGBT Community Center, the drug addiction center at Johns Hopkins Bayview Medical Center, Dismas House in Rutland, Vermont which serves as a halfway house for ex-prisoners with histories of drug and alcohol addiction, the Children's Aid Society in NYC, Boston Health Care for the Homeless Program, and the Baxter Community Center in Grand Rapids, Michigan.

We are seeking a class member to serve on the DPCS Alumni Board of Directors. As the '85 representative, the volunteer would participate in four conference calls year for the Board, provide information on the program to the class, and gather names of classmates that are interested in serving as alumni mentors. The representative would also participate in '85 executive board conference calls. If you are interested in finding out more or serving in this capacity, please contact Linda Blockus (BlockusL@gmail.com) by June 1st.

Are you interested in serving as a mentor to a future DPCS intern? You can find more information at <http://www.dartmouth.edu/~dpcs>. To be added to the list of potential mentors, please contact Linda until we have identified a classmate to serve as our DPCS point person.



## Center for Professional Development Student Internship (CPD)

The Center for Professional Development is the new name for what we remember, back in the day, as Career Services (<http://www.dartmouth.edu/~csrc/>). CPD will be the campus office that will handle the student logistics for the new Student Internship program.

Many undergraduates can find paid leave-term internships in large corporations that have formal (and funded) internship programs. But what about students who want a real-world work experience with a small company, a not-for-profit, or other organization? Undergraduates who lack financial resources may not be able to pursue opportunities of most interest to them (e.g., doing set design for a small theater company, interning with the CEO of a start-up company, working at a community newspaper) without funds to cover living expenses. The CPD student internship is designed to expand leave term options for students. Or, officially, the program is described as:

Gaining real-world work experience is a critical part of the educational process for Dartmouth undergraduates, and the flexibility of the Dartmouth Plan allows our students to pursue internships and jobs throughout the academic year. Unfortunately, not all internships and leave-term job opportunities compensate students at the level needed to cover expenses or to allow students receiving financial aid to contribute the costs of their Dartmouth education.

Classes who support the funding of internships through the Center for Professional Development (CPD) directly impact the student experience at the college. Class Project support allows current Dartmouth students to pursue fulfilling work opportunities that they would not otherwise be able to consider. Class funds will be distributed through an application process designed to identify students with compelling need for funding and will be used to help students cover travel costs, living expenses while working, educational expenses, and other related expenses. Applications for funding will be reviewed by a committee comprised of staff from the CPD and the Office of Alumni Relations and will include representatives from other areas of the College. The Office of Financial Aid will serve in advisory role to ensure that distribution of funds complies with all relevant policies.

As this is a new and developing program, we hope to be working closely with the staff at CPD and the Director of “Dartmouth for Life” in the Office of Alumni Relations, Dan Parish ‘89 (former Admissions Officer for Dartmouth and brother of our own **Beth Parish ‘85**), to shape and enhance this program and promote it to other Classes for adoption.

If you are interested in a more personal involvement with this project, please contact Class Project Chair Linda Blockus ([BlockusL@gmail.com](mailto:BlockusL@gmail.com)) and she will assemble a list of interested classmates to pass along to Dan and the CPD.



## News from the College...

### Dartmouth Alumni Ski Club Patch

Bruce Sherman '53 has kindly offered to mail a Dartmouth Alumni Ski Club patch to anyone who would like one. The patch is intended to be worn on ski clothing so that alumni will recognize fellow alumni on ski slopes around the world. If you would like a patch, simply email Bruce at [ski.patch@dartmouth.edu](mailto:ski.patch@dartmouth.edu) and provide your home mailing address.

### Class of 1964 Publishes Book of Essays

The Class of 1964 would like to share with you its enthusiasm and pride on the occasion of publishing *Dartmouth Veterans – Vietnam Perspectives*. This book of personal essays is a class project completed to coincide with its 50th Reunion.

The book is a collection of 55 essays by Dartmouth '64s and three additional essays, including one by a Dartmouth '15 back from Iraq. Represented are all the services, many functions and several theatres, including Vietnam, Korea, Japan, South and Central America, and Germany, because this was but one aspect of the cold war.

Published by Dartmouth College Press, it is available for order online at [www.upne.com](http://www.upne.com). Also available through bookstores (ask for it).

### Camp Dartmouth

Bring your family to Camp Dartmouth at Ohana this summer, July 5th -12th. Unplug and unwind in a picturesque setting reminiscent of your summer days at Dartmouth. Just north of Hanover in Fairlee, VT, the Ohana Family Camp provides an opportunity for Dartmouth families to deepen old and make new friendships as they play, learn, and relax together. In addition to a wider range of outdoor activities, Vicki May, Associate Professor of Engineering, will team up with her students to help families design and engineer a prototype. Harry Sheehy, Director of Athletics, will present a series on youth leadership and sportsmanship.

For more information about Camp Dartmouth at Ohana or to register your family, visit our website. <http://alumni.dartmouth.edu/events/campdartmouth>.

### *Passion for Snow* Nominated for Emmy

The National Academy of Television - New England announced that the film, *Passion for Snow*, has been awarded 1 of 7 finalist Nominations for the 2014 Emmy Award for the best Documentary shown on television in 2013.

Our class was one of the many groups that helped support the making of this film through our class project donation to publish the *Passion for Skiing* book several years ago! The final Emmy Award ceremony will take place in a Boston at the Marriott Plaza Copley Square on June 7.

## Mini-Reunion News

Join us for our monthly '85 NYC Lunch Date!

When: 4th Thursday of every month

Where: Ted's Montana Grill

Time Life Building, 110 W. 51st (51st & 6th Ave), New York, NY 10020

right above the Rockefeller Center subway stop.

(212) 245-5220

<http://www.tedsmontanagrill.com/>

Next lunch is May 22, 2014

RSVP to **Joe Riley '85** but drop-ins are welcome. Please join us, and bring another '85 with you if you can!

**Want to start an '85 Lunch Date series in your home town? Let Joe know and he will coordinate announcements.**

## Class of 1985 - 30th Reunion

One more year until our Dartmouth Class of 1985's 30th Reunion! Mark your calendars for June 18-21, 2015 (Thursday - Sunday), in Hanover, NH.

Our 30th Reunion co-chairs **Joe Riley**, **Todd Cranford** and **Rebecca Osborne** are beginning preparations already and are looking forward to bringing you an event to remember. But they will need help -- with music, and catering and event planning, and myriad other details and tasks, so, if you are interested, volunteer to join the Reunion planning committee. Just send an email to any one of them.

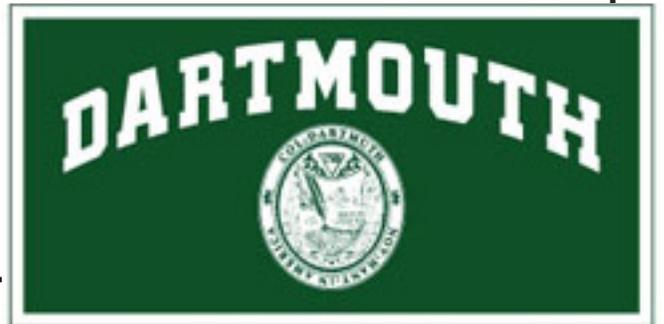
So please put a note in your calendar now! Many more details about the Reunion will be announced as plans are finalized. We look forward to seeing you in Hanover in June 2015!

Todd Cranford: tlc31esq@yahoo.com

Rebecca Blake Osborne: rosborne29@comcast.net

Joe Riley: jriley851@gmail.com

**Save the Date!**



1985



2013 *The Klupchack brothers then and now:  
Michael '73; Bill (Otis) '77; Tom '85; Rick '74.*



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**Spring 2014 NEWSLETTER**  
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## Calendar

<b>June 8, 2014</b>	Graduation Congratulations to the Class of 2014!
<b>June 26, 2014</b>	NYC Monthly Lunch Date
<b>July 2014 - Check <a href="http://www.dartmouth.edu">www.dartmouth.edu</a> for dates</b>	Fieldstock (Summer Carnival)
<b>September 12-13, 2014</b>	Class Officers Weekend
<b>October 9-10, 2014</b>	Homecoming 2014 Join us for our annual Homecoming Mini-Reunion Dartmouth vs. Yale

**Check out more events at [alumni.dartmouth.edu](http://alumni.dartmouth.edu)**

**Stay in touch:**  
**Facebook - Dartmouth Class of 1985**  
**Website - [www.dartmouth85.com](http://www.dartmouth85.com)**

**SAVE THE DATE**  
**30th Reunion**  
**June 2015**