

MIT's Oldest and Largest Newspaper

tech.mit.edu



WEATHER, p. 2

TUE: 82°F | 71°F
Chance of storms
WED: 77°F | 61°F
Sunny
THU: 83°F | 59°F
Sunny

Volume 132, Number 32

Tuesday, August 28, 2012

ASA changes recruitment moratorium

By Bruno B.F. Faviero
STAFF REPORTER

The Association of Student Activities (ASA) has redefined its recruitment moratorium rules for this year into a single statement: “During the Moratorium, groups may not recruit.” This rule, the enforcement of which is described as a “holistic process,” is in effect until the end of the Activities Midway on Friday. In addition, no recruitment can take place during the Midway outside of the event itself.

One significant change from past rules regards communication with students who initiate contact with a group or provide a group with contact information, both of which were previously unrestricted. This year, groups may not contact students during the moratorium with previously-collected contact information. If a student contacts a group during the moratorium, the group can only tell the student to find out more about their group at the Midway. Student groups are prohibited from speaking about events occurring during or after the moratorium, though responses to “particularly excited” students can be cleared with the ASA.

Examples of other banned activities listed on the ASA website include “behavior that aims to enlist new members,” increased advertising, having a sign-up sheet at an event, and holding more “beginner-friendly” events than during the rest of the year. Regular periodic publicity “not motivated by recruiting the new students” may resume in most cases, though all decisions are at the ASA’s discretion. Recruitment rules apply to all students, new and returning, graduate and undergraduate. Questions and clarifications can be directed to asa-exec@mit.edu, and the full text of the rules with clarifications can be found at <http://web.mit.edu/asa/rules/recruitment-rules.html>.



JESSICA L. WASS—THE TECH

On Sunday, Aug. 26, East Campus had a cow in its courtyard. The cow, “Buckcherry,” was loaned to them for promotional purposes by Hilltown Grazers, the company from which the dorm purchases meat for dorm events.

OBITUARY

Francis B. Magurn

Lincoln Labs researcher remembered for advocacy and research

By Laurie D. Willis
THE BOSTON GLOBE

Francis B. Magurn believed in keeping things simple. He drove secondhand cars his entire life and rarely shopped for new

clothes.

He also believed in longevity, as evidenced by his 62-year marriage and his 43-year tenure at Massachusetts Institute of Technology’s Lincoln Laboratory in Lexington, where his research

involved developing radar technology and various projects for NASA.

“Dad was a very curious man and an engineer through and through,” said his daughter Janet, of Concord. “He loved the chal-

lenge of a puzzle and could look at a problem and figure out a solution. Lincoln Lab was perfect for him.”

After retiring in 1986, he be-

Magurn, Page 14

Discover Journalism 2012

Check out the results of the second annual journalism FPOP!



PAGE 7

IN SHORT

The First Year Residence Exchange (FYRE) application is open until Wednesday at 2 a.m. If you want to switch dorms, now’s your chance. Results will be available at 6 p.m. on Wednesday.

PE Registration opens online at 8 a.m. on Wednesday! Go to <http://mitpe.com> to sign up.

In-house rush begins at 7 p.m. on Wednesday in your dormitory. Find your niche!

The Academic Expo is today at 2 p.m. on the first floor of Johnson. Meet your future professors!

The “Gateway” to Athletics, Physical Education, and Recreation at MIT is today at 2 p.m. in Rockwell Cage. Check out the sports at MIT!

The East vs. West Water War is today at 4 p.m. on Kresge Oval.

Send news information and tips to news@tech.mit.edu.



AKIMITSU G. HOGGE

Building W51C at 405 Memorial Drive was renovated over the spring and summer and is the new house for the Pi Beta Phi sorority.

GSC EVENTS

Check out the guide to graduate student orientation!
GSC, p. 13

TO RECRUIT OR NOT TO RECRUIT?

Two perspectives on sorority recruitment. **CAMPUS LIFE**, p. 11

SCIENCE CAMP

Summer at the National Youth Science Camp. **CAMPUS LIFE**, p. 11



NEWBURY STREET

As viewed by a freshman. **PHOTO**, p. 8

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How much is Paul Ryan helping Romney?
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STATE OF THE RACE

The Ryan bump

On Romney's selection of Paul Ryan

By Keith Yost
STAFF COLUMNIST

On August 11, Mitt Romney announced Congressman Paul Ryan of Wisconsin as his running mate. The choice of Ryan seems to have outperformed expectations.

Since August 11, Mitt Romney's poll position has improved. The RealClearPolitics average of polls on August 11 had him trailing by 4.6 points. Today, he trails by a 1.1 points and continues to trend upwards.

Mr. Romney's position in predictive models has similarly improved. Nate Silver's model at *The New York Times* has seen Mr. Romney's chances increase by 2.3 percent, from 28.4 percent to 30.7 percent, with other models showing similar gains.

And finally, his position in prediction markets has risen since they announcement. On Intrade, shares of Romney to be President rose four points, from 38.5 percent to 43.7 percent.

Ryan has been regarded by many as one of Romney's bolder vice presidential options. During the Obama administration, Mr. Ryan has emerged as one of the party's intellectual leaders and policy architects,

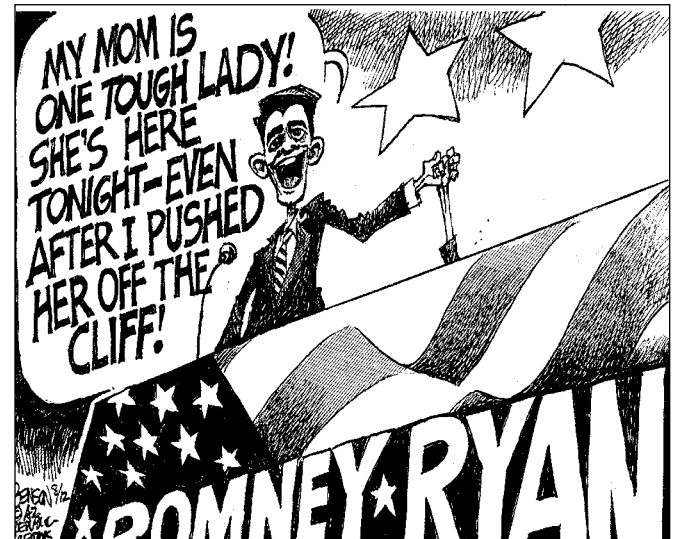
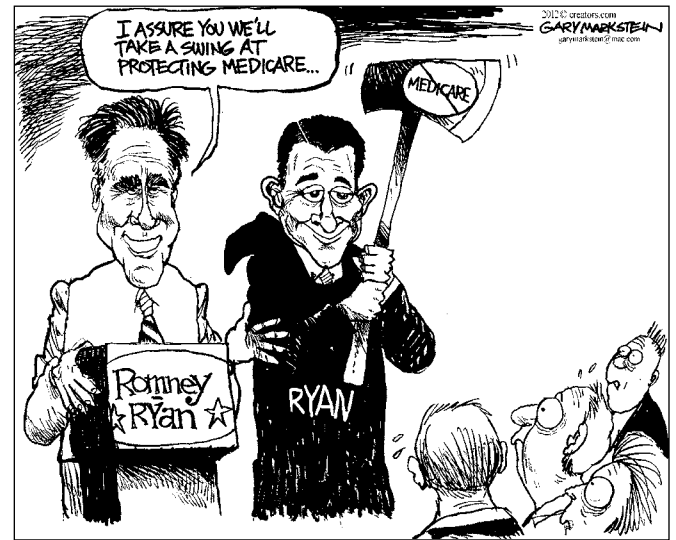
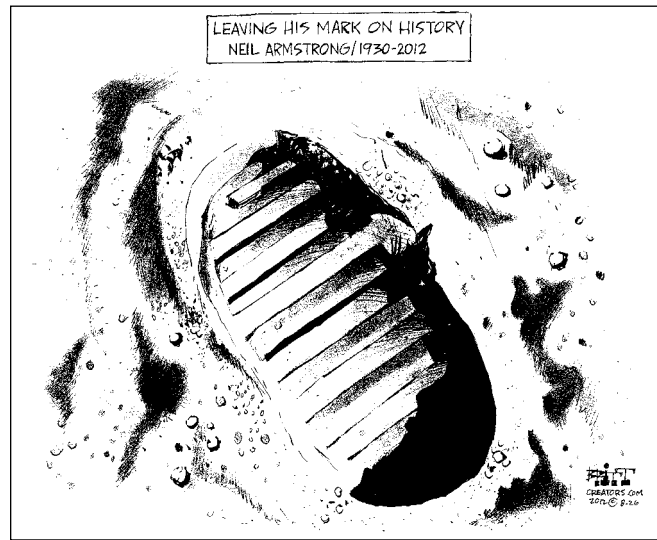
particularly on fiscal issues. He was the principal author of the Republican party's 2012 and 2013 budget proposals. His vigorous advocacy of reform and articulate defense of fiscal conservatism are an asset both for winning independents as well as securing the moderate Romney's right flank. However, his willingness to put forward budget specifics, as well as his 14-year voting record in the U.S. House should give Democrats a large cache of votes and positions to use as ammunition against Mr. Romney.

The clear intention of Mr. Ryan's selection is to focus the 2012 campaign on the economy. The extent to which this has succeeded is unclear — most campaign discussion was focused on the economy before Ryan was selected, and would likely have remained on the economy even if Mr. Romney had selected someone regarded as "safer" such as Tim Pawlenty or Robert Portman.

The Romney camp hopes that the selection of Ryan will turn the 2012 campaign into a big ideas campaign of the sort that brought Ronald Reagan to power. The Obama camp hopes that the partnership

will be more akin to when moderate Bob Dole picked the conservative firebrand Jack Kemp to run against an incumbent Bill Clinton. Either way, the selection of Ryan breaks the mold of usual vice presidential selections, which are done to balance a ticket geographically or politically, and make moves on swing states and demographics. Paul Ryan's home state of Wisconsin is unlikely to turn red this election, Ryan has no substantial foreign policy experience to balance out Romney's policy background, and unlike, say, Marco Rubio, it is not apparent that there is any particular demographic that regards Mr. Ryan as a champion.

Vice presidents, in the net of things, usually have a limited impact on the election as a whole. Most voters regard the top of the ticket as the overwhelmingly important half. And so, all things considered, Mr. Ryan will probably prove no exception to history. But as it stands, the choice of Paul Ryan for vice president thus far appears to be a high-risk, high-reward campaign strategy that has thus far yielded a modest improvement in Mitt Romney's electoral position.



CORRECTIONS

Due to a production error, the August 24 edition of *The Tech* published the same Sudoku twice, but published two different answers. The Sudoku that was supposed to be run can be found on page 6.

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Aislyn Schalck, Editor in Chief Jessica J. Pourian, Managing Editor Connor Kirschbaum, Executive Editor Ethan A. Solomon, and Opinion Editor Andy Liang.

Dissents are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

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Bank of America, Citibank, MIT FCU offer attractive choices for incoming freshmen

Why choosing a bank may be easier, yet harder than choosing your classes

By Anthony Yu

Choosing a bank can one of the most difficult first decisions of college. Managing money is a scary proposition with plenty of horror stories: students irresponsibly using their credit cards, getting robbed, and just being strapped for cash. Sometimes these situations are inevitable, so the best way to reduce pain and suffering is to pick the right place to put your money. At MIT, the most visible choices are Bank of America, Citibank, and the MIT Federal Credit Union (MITFCU). They all offer basic checking, savings, and credit cards.

Sometimes these situations are inevitable, so the best way to reduce pain and suffering is to pick the right place to put your money.

Checking

For checking accounts, the products offered by Bank of America, Citibank, and MITFCU are similar. Debit cards are free at all three and ATMs are aplenty on or near campus. Since they are smaller, Citibank and MITFCU are members of networks that allow members to use tens of thousands of partner ATMs, surcharge-free, across the country. All have branches across the country — either their own or through partners — to help customers in person.

Still, customers should be aware of Bank of America's fees — they are the highest of the three. For example, Bank of America charges a \$35 insufficient funds fee if a customer can't afford a check or debit purchase, compared to \$25 at MITFCU. And depositing and withdrawing money from tellers is prohibited with a Bank of America eBanking account unless you pay a \$12 monthly fee (not even the one in the MIT Student Center).

But solely using ATMs is not necessarily difficult. Bank of America is one of the largest banks in the Boston area and has numerous ATMs. Darryl M. Williams '14 chose Bank of America for this reason. "It was convenient. I signed up at the Galleria," he said.

Savings

Savings accounts are also similar across all three options. Interest/dividends are paid, but all three rates are low for entry-level accounts — not enough to make a big difference in the short-term. The interest or dividend rates are 0.01 percent APR for Bank of America, 0.05 percent for Citibank, and 0.10 percent for MITFCU. For MITFCU, a savings balance must exceed \$100 in order to make dividends. The only savings requirement that stands out is Citibank's \$500 minimum to avoid fees. Bank of America requires a \$300 minimum to avoid a \$5/month cost. (MITFCU's minimum is \$5.)

Credit Cards

In contrast to banking products, the student credit cards offered by the banks are more different. While there are additional choices online, the cards discussed here are explicitly advertised in the Student Center. Bank of America pitches their BankAmericard Cash Rewards for Students or a standard BankAmericard for Students. The trade-off between the two is a higher interest rate per month (12.99 percent–0.99 percent) and cash back (Cash Rewards), or a lower interest rate (10.99 percent–19.99 percent) but no cash back (standard BankAmericard).

Citibank offers their Forward Card for Students. It is essentially the same as Bank of America's Cash Rewards card, except it

offers rewards through a point system instead of cash back.

MITFCU offers a fixed interest rate 10.99 percent card. It has no rewards benefits, but usually comes with the most generous initial monthly credit limit of \$1000 — Bank of America and Citibank's student offerings will probably start lower. As with any credit card, credit limits can change based on a customer's creditworthiness.

All four cards have no annual fee. They all require students to be 18 or older and have a student ID. Bank of America and MITFCU need proof of income or a co-signer that can guarantee payment. Generally, cash back cards are for students can pay their balance in full regularly, while fixed rate cards are for those who tend to hold a balance.

By-the-numbers comparisons can be forgotten amidst flashy advertising. Populating the first floor of the Student Center are tables with representatives of Bank of America, Citibank, and MITFCU, with each group desperately vying for business.

MITFCU likes to differentiate itself by being a credit union. Unlike national banks, credit unions only exist to serve particular groups (in this case, MIT community members). Because of this, credit unions claim they are able to offer better customer service and rates.

MITFCU representatives say they open accounts for roughly half of the incoming class each year.

Indeed, for some MIT students like Melanie B. Jung G, the credit union is a symbol of local businesses, while banks represent corporate America. "I use a credit union back in Washington, so I will be using the MIT credit union. I switched out of Chase (a bank) because they're terrible," she remarked.

MITFCU representatives say they open accounts for roughly half of the incoming class each year. A new Bank of America employee conservatively estimated that they open about three hundred to four hundred bank accounts each year.

Some students come to college with a preferred bank or lender from home, often chosen for them by their parents.

For example, Clara J. Suh G, who uses Bank of America, told *The Tech*, "It was the

bank I went to when I was 16 and I haven't left yet. Back then, it was my parents and it was the only option presented to me."

Her story is not unique. Dylan W. Joss '15 uses a Wells Fargo account opened by his parents and the Bank of America ATMs

on campus.

MITFCU, Bank of America, and Citibank are not the only financial institutions available near campus. There are smaller local banks in Kendall Square and Central Square area that will serve the typical student just fine.

CHECKING ACCOUNTS

	Bank of America eBanking Checking	Citibank Student Checking	MITFCU Checking
Debit Card	Yes	Yes	Yes
Teller services for deposit and withdrawal	No	Yes	Yes
Monthly Fee	\$0*	\$0	\$0
Stop payment	\$30	\$30	\$25
Insufficient funds fee	\$35	\$34	\$25

*If paper statements or teller services are used, the fee is \$12

SAVINGS ACCOUNTS

	Bank of America Savings	Citibank Day-to-day Savings	MITFCU Savings
Monthly Fee	\$0*	\$0*	\$0
Minimum Balance	\$300	\$500	\$5
Interest /Dividends	0.01% APR	0.05% APR	0.10% APR
Stop payment	\$30	\$30	\$25
Insufficient funds fee	\$35	\$34	\$25
Amount to Open	\$25	\$100	\$5

*Monthly fee if minimum balance is not met.

CREDIT CARDS

	BankAmericard Cash Rewards for Students	BankAmericard for Students	Citibank Forward Student Credit Card	MITFCU Classic Card
Annual Fee	\$0	\$0	\$0	\$0
Typical Credit Line	\$500	\$500	\$500	\$1000
Interest Rate	12.99-20.99%	10.99%-19.99%	12.99%-20.99%	10.99%
Incentives	Cash back	None	Points	None
Age	18+	18+	18+	18+
Requires SSN	No	No	No	No
Requires Proof of Income or Co-signer	Yes	Yes	Yes	Yes



Know something important we should write about?

(We probably don't know about it.)

Let us know.

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THE COUNCIL FOR THE ARTS AT MIT GRANTS PROGRAM



**NEXT DEADLINE
SEPTEMBER 28, 2012**

All current MIT students, staff and faculty are invited to apply for grants to support art related projects.

arts.mit.edu/about/camit/camit-grants/

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Graduate student orientation

Events for August 28 through August 30, 2012

Tuesday August 28

10 a.m. – 4 p.m.

Info Booth [Lobby 10]

The information booth is your one-stop-shop for all information about orientation events, and other campus services and resources. Orientation event tickets may also be purchased here. The MIT-Harvard cooperative student store (COOP) will be present for membership sign-up.

11 a.m. – 12:30 p.m.

Initiatives Fair [outside 34-101]

Take this unique opportunity to talk to representatives from some of the largest student groups and initiatives about how their work relates to you. The contacts you make at the initiatives fair may lead you to avenues you wouldn't otherwise stumble upon. Whether you start a business, pursue your passions in a global setting, lobby for sound science policy, or optimize the way your studies are taught you'll be glad you came.

*The event is open to children, spouses & partners.

1 p.m. – 4 p.m.

Grad School 102 [34-101]

This is the second day of the information rich portion of Orientation. The day will start with tables set up to walk around and talk to representatives from the different on campus initiatives. Snacks will be provided after which we'll have presentations on the different things to do at MIT and around Boston for fun. Grad 102 will end with presentation of everyday resources with plenty of time to ask any questions you have.

*The event is open to spouses & partners, but is not suitable for children.

11 a.m. - Initiatives fair

-Snacks-

1 p.m. - Activities

2 p.m. - Everyday resources

6:30 p.m. – 11 p.m.

Sidney-Pacific BBQ & Movie Night [Sidney-Pacific]

Come join your fellow students, break ice with new friends, and relax with the familiar ones. Treat yourselves with plenty of free hot-dogs, burgers, sandwiches, fruits, and juices. Enjoy listening to music. Cap it all with a fun and entertaining outdoor movie. All in all, start your MIT career with memories that you'll come to cherish forever. *The event is open to children, spouses & partners. *Admission open to all. Alcohol requires 21+ photo ID (US issued ID or passport). *Bar accepts cash only.

Wednesday August 29

10 a.m. – 4 p.m.

Info Booth [Lobby 10]

The information booth is your one-stop-shop for all information about orientation events, and other campus services and resources. Orientation event tickets may also be purchased here. The MIT-Harvard cooperative student store, (COOP) will be present for membership sign-up.

11:30 a.m. – 1 p.m.

Spouses & Partners English Language Fair [W20-307 (Mezzanine)]

Want to improve your English? There are many resources at MIT for you! Come to the ESL Info Fair to learn about FREE English classes on campus and other opportunities to develop language skills. Have a snack, get information, meet teachers, and learn how to be matched up with an MIT conversation partner. A kid-friendly coloring activity table will be provided. The ESL fair is sponsored by the GSC and organized by MIT Spouses & Partners, a support and resource network for the significant others of MIT students, staff, visiting scholars, and faculty. We help newcomers to participate fully in MIT activities and the larger community by helping them pursue professional, educational, and parenting goals, as well as cultural and volunteer activities. Learn more at <http://web.mit.edu/spouses>.

6:30 p.m. – 10 p.m.

Boston Harbor Cruise: Toast to the Sunset (21+, \$)

[meet at Kendall T, 5 p.m.; boat leaves 6:30 p.m. at Seaport World Trade Center]

Come spend a breezy fall evening toasting the Skyline at sunset. A ticket to the Boston Harbor Cruise buys you a night of dancing under the moon that is often cited as one of people's favorite social events of Orientation. Tickets can be bought for \$15 at the Info Booth, but come early since tickets tend to sell out. *The event is open to spouses & partners but is not suitable for children. *Alcohol and admission require a 21+ photo ID (US issued ID or passport). *Bar accepts cash only. *Dress to impress.

Thursday August 30

12 p.m. – 1 p.m.

Presidential Welcome Address [Kresge]

1 p.m. – 3 p.m.

Welcome Lunch [Johnson Ice

Rink]

The Welcome Address is the official welcome given by MIT President L. Rafael Reif, and notable MIT luminaries including Nobel Laureate Peter Diamond. Lunch will be provided to attendees.

*The event is open to spouses & partners but is not suitable for children.

6 p.m. – 9 p.m.

Techlink Welcome Banquet [Morss Hall]

The Banquet is one of Orientation's largest social events with ample opportunities to bond with new friends or dance along to the live band. Dinner and drinks will be provided. Sponsored in part by Techlink

*The event is open to spouses & partners but is not suitable for children.

*Admission open to all. Alcohol requires a 21+ photo ID

(\$ = Ticket required, can be purchased at the Info Booth)

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THUR, AUG. 30th @ 4:00 PM – BOATHOUSE BBQ

and/or

WED, SEP. 5th @ 5:30 PM – INFO. MEETING

For more information please contact:
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Francis Magurn, Lincoln labs researcher, dies at 92

Involved with space and missile defense programs; helped generate new ideas

Magurn, from Page 1

came an advocate for the elderly, volunteering for advocacy organizations such as AARP and the Silver Haired Legislature.

Mr. Magurn died in his Concord home Aug. 2 of arteriosclerotic heart disease. He was 92.

Though Lincoln Lab was a significant part of his life, he was limited in what he could disclose about what he did.

"Much of what he worked on was part of either the space program or the missile defense program, and as such was literally a government secret," said his son Francis II of Littleton, a Massachusetts Army National Guard colonel. "But Dad had great pride in the work and in the association with MIT."

Mr. Magurn "was easy to talk to," helpful to co-workers, and shared in generating new ideas, said a former colleague, Erv Schowengerdt of Newburyport.

Work required Mr. Magurn to spend considerable time in places as

distant as the Marshall Islands in the Pacific and the White Sands Missile Range in New Mexico.

Back in Concord, he enjoyed his time with family.

"Camping was the iconic Magurn family activity above and beyond everything else," said his son. "My father had his way of doing everything, including a military-like precision and discipline involved in loading the car and setting up the campsite. I still remember how some jobs, like carving the stick to hold the roll of paper towels, were coveted, while others, like filling and lugging the 2½ gallon water jug, were loathed."

C. Ellen Magurn of Montpelier said her father was thrilled in 1980 when she gave him a 12-speed bicycle for Christmas.

Her father, she said, had started out a couple of years earlier "on a Frankenstein bike he built from stuff he found in the garage." The bicycle, she said, often needed repairs and "it wasn't unusual to see him walk the thing home. On Christmas Day when I wheeled the bike in, his reac-

tion was complete surprise."

The oldest of nine children, Mr. Magurn graduated in 1936 from Northeastern University with a bachelor's degree in engineering.

His penchant for building things led him to the world of midget race cars.

"We would come out of Sunday School when we were younger," said his friend Daniel Curley of Marlborough, "and the church was right next to the Ford dealership, and that race car would be on a trailer."

His family said the pinnacle of Mr. Magurn's racing career occurred in 1946 when he broke the dirt track record for eight laps at Seekonk Speedway. He continued visiting tracks for decades.

"We have a big vintage show every year at New Hampshire international speedway, and Francis would show up when he was in his 80s to talk to some of the old-timers," Curley said. "He was 87, maybe 88 years old at that time, and he would still drive."

The youngest of Mr. Magurn's

children, Walter of Chelmsford, was so enamored of his father's racing that he also raced midget cars for several years.

Spending time at the track also led Mr. Magurn to the woman he married.

"In late summer 1948, my brother took me to a midget race, where he introduced me to this grease-covered driver who I thought was a mess and would never clean up," said his wife, the former Charlotte E. Cain. "The first time he asked me out I said no, but I eventually saw him cleaned up in a sport coat and that was it."

Mr. Magurn, she recalled, "was very handsome and confident," and had "a gentle way about him. On our first date he took me for a ride in an airplane."

He had learned to fly at Hanscom Field in Bedford during World War II.

Mr. Magurn also was proud of his affiliation with groups that advocate for the elderly.

"My father was selfless and pur-

poseful," Francis Magurn said. "His sense of fairness really gave him the drive to stand up and make a difference for a slice of the population he felt was underrepresented."

Walter Lawler, who formerly worked at Lincoln Lab, said he was at a meeting of the Wakefield Retired Men's Club "and I looked up one time and there was Fran coming to give a talk to seniors about what they could do and what they could get. His speech was very informative and useful."

Francis added that his father "just couldn't fritter away his time. I once asked why he didn't take it easy in his retirement, go fishing or just take a rest, and his response was, 'I'll get plenty of rest when I'm 6 feet under.'"

A service has been held for Mr. Magurn, who, in addition to his wife and four children, leaves a brother, Albert of Concord; four sisters, Mary Giles of Naples, Fla., Martha Ivey of Torrance, Calif., Esther Capozzoli of Escondido, Calif., and Louise Smersh of Everett, Wash.; and seven grandchildren.

When Mr. Magurn became ill, the kindness he showed others was returned. His grandchildren and other children who lived nearby would "make him cookies or muffins, which he loved," his wife said.

"Fran loved children," she added. "He loved to hear them in the neighborhood, and his eyes would light up when they would bring drawings and pictures for him. During his illness he always had drawings from the grandchildren or neighborhood kids hanging on the walls."

SMBC, From Page 5

Solution to Sudoku
from page 6

8	1	6	5	2	4	7	9	3
3	9	7	1	6	8	2	4	5
4	5	2	9	3	7	6	8	1
7	6	5	2	1	9	4	3	8
1	3	8	4	7	5	9	6	2
9	2	4	3	8	6	5	1	7
5	8	3	6	9	2	1	7	4
2	7	9	8	4	1	3	5	6
6	4	1	7	5	3	8	2	9

Solution to Crossword
from page 5

B	A	S	I	S	S	A	L	E	S	A	G	A		
U	S	E	T	O	T	R	E	X	P	U	L	L		
M	I	L	E	R	A	T	A	P	A	D	A	M		
P	A	L	M	C	I	T	Y	F	L	O	R	I	D	A
				E	V	E			O	R	E			
P	A	L	T	R	Y	M	A	R	S	E	N	S		
A	R	E	W	E	F	A	R	E	B	R	O	W		
C	E	D	A	R	R	A	P	I	D	S	I	O	W	A
T	A	G	S	U	C	L	A	A	D	D	I	N		
S	S	E		A	N	T	E	P	R	E	E	N	S	
				U	S	A			S	A	D			
O	A	K	P	A	R	K	I	L	L	I	N	O	I	S
A	C	E	S		I	N	T	O		N	U	R	S	E
T	R	E	E		S	E	R	B		E	L	E	N	A
S	E	N	T		K	E	Y	S		S	L	O	T	S

Solution to Techdoku
from page 6

2	5	6	3	4	1
4	1	2	5	6	3
5	2	3	6	1	4
3	6	1	4	5	2
1	4	5	2	3	6
6	3	4	1	2	5

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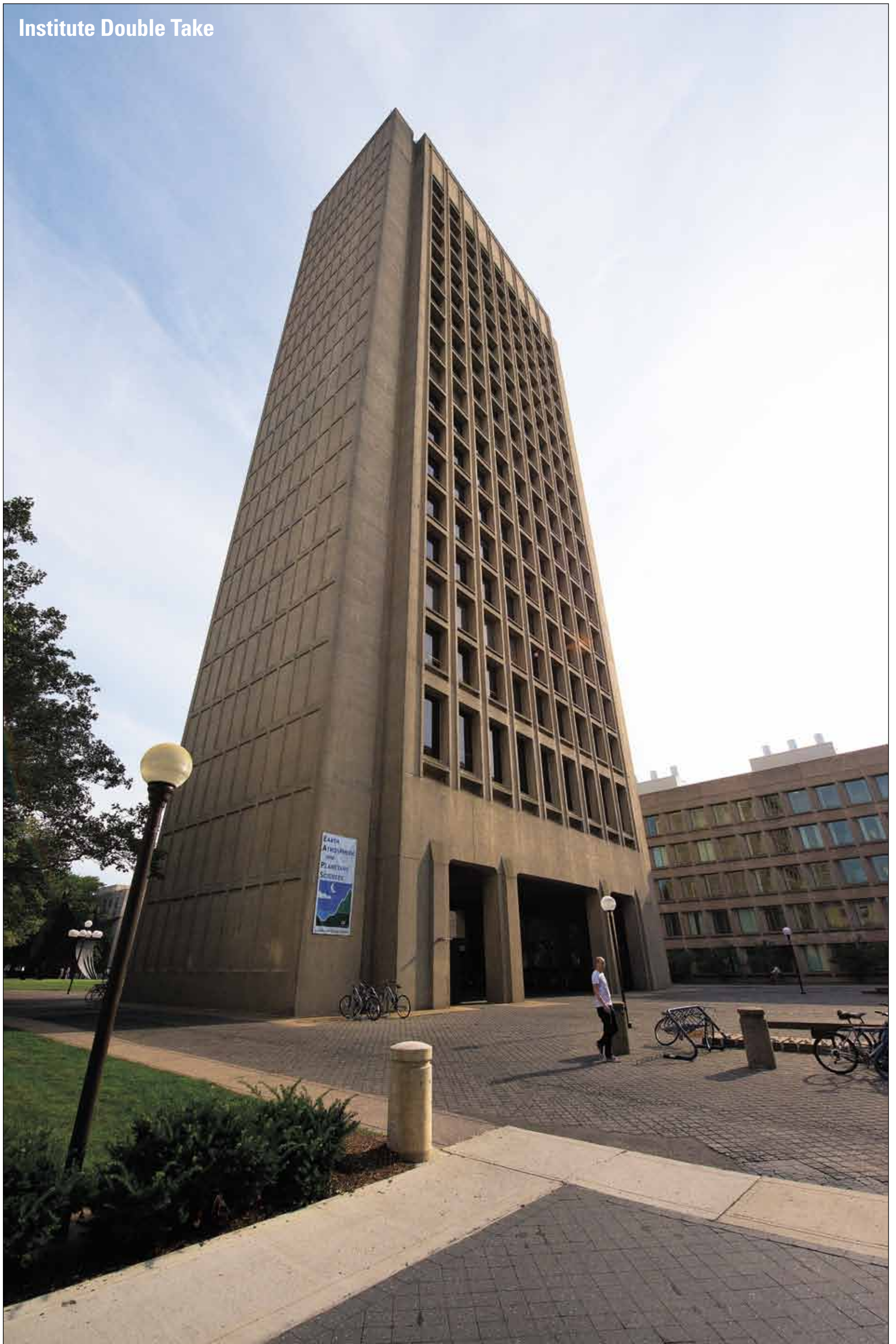
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Institute Double Take



By Jessica L. Wass
PHOTO EDITOR

This photo of Building 54 was taken on Friday, Aug. 24 in the early afternoon with the bright sun overhead. A wide angle 14–24mm lens lent a unique perspective to the Green Building, a common sight to most on campus. The wide angle achieved by opening the lens up to 14mm allowed the opportunity to include the entire building in the frame while avoiding the distortion seen with fisheye lenses that are often used to attain similar wide angles.

Aperture:

f/6.3

Exposure Time:

1/3200 sec.

Sensitivity:

ISO 800

Effective Focal Length:

14 mm