Board's chair on future of Institute
Millard stresses supporting role

By Katherine Nazemi

Leadership of MIT's Corporation changed hands this fall, with Robert M. Millard ’73 elected as the Corporation's new chairman.

In an interview with The Tech, Millard discussed his role as chairman and the future of MIT, particularly in the context of the final report of the Task Force on the Future of MIT Education.

“I think higher education and MIT in particular is in one of those immensely important transitional phases,” Millard said. “There are basically three things we do here. We educate, we do research, and as a consequence of the first two, we innovate.”

Millard continued, “The biggest set of questions affecting the first of those missions is embodied in that Task Force [on the Future of MIT Education]. The second question, which is research, is equally important. How we fund the important research in a world of declining federal attention span and money is a very, very important question.”

He also answered questions about calls for MIT's divestment from fossil fuel companies and described the role of the Corporation, emphasizing its partnership with the administration.

Task Force on the Future of MIT Education

The Task Force on the Future of MIT Education, launched by President L. Rafael Reif in February of last year, filed its Final Report in August after several months of data collection and experimentation. The report offered 16 recommendations encompassing all areas of academic and administrative missions.

The externship program has grown substantially over its 18 years of operation, and it saw an increase of 215 applicants and 345 applications over last year. Of the 1208 students that competed for hundreds of externships, 1045 of them are undergraduates and 163 are graduates.

Of all listed externships, students can apply for up to three, in fields such as financial services, engineering, and medicine. The first of two rounds of matching occurred on October 30, in which 396 students accepted externships and 117 declined.

Those who declined were ineligible for the second round of matching that took place on November 12. The smaller second round of matching was held on November 24.

Olympic Committee visits MIT regarding Boston bid

On Nov. 18, the United States Olympic Committee (USOC) visited Boston and MIT’s campus to evaluate Boston’s bid to host the 2024 Summer Olympics and Paralympic Games, according to the MIT News Office.

“This was an opportunity for Boston to showcase itself as a center of innovation with a passion for sport, and for members of the U.S. Olympic Committee to experience the city,” said Israel Ruiz, MIT's executive vice president and treasurer. Ruiz is one of four co-chairs for the Boston 2024 Institutional Outreach Subcommittee, a group creating support for the city’s Olympic bid among Boston universities.

The News Office reported that if Boston is selected, MIT would be a potential sports venue for archery and fencing. Ruiz offered a reduction in the size of the ex-Cells at the time of sexual assault and provide support to sexual assault survivors across the U.S.

Externship numbers increase

Finance companies were most popular in program

By Ray Wang

A record 1208 students sent over 3000 applications to the MIT Alumni Association's Externship Program this year, according to Katie C. Maloney, Director of Parent Association and Student/Alumni Relations. Over a third of the applicants plan to spend this January’s Independent Activities Period (IAP) working with alumni sponsors worldwide.

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I just learned about the Slide Mountain Ocean, which I like because it’s three nouns that sound like they can’t possibly all refer to the same thing.

A WEBcomic of romance, sarcasm, math, and language
by Randall Munroe

A WEBCOMIC OF ROMANCE, SARCASM, MATH, AND LANGUAGE
by Randall Munroe

[1449] Red Rover

by Jorge Cham

by Jorge Cham

Dramatic Increase by Fred Piscop
Solution, page 9

ACROSS
1 “No problem!”
6 Poetic contraction
9 What you wear
13 Of feathered friends
14 Beyond repair
15 Egg’s contour
16 Place to sign
18 Sean Lennon’s mom
19 Honeys
20 Solar satellite
22 Belly flop, e.g.
23 Fuss
24 __-jongg
27 Fusses in public
33 Employment
35 Prefix with week or way
36 Large bovines
37 Fuss
38 Yearbook group
40 Uncool one
41 Minuscule amount
42 Peanut product
43 Start a volley
44 Serious offense
48 Actor Danson
49 Gds. producer
50 Achievement
52 Siesta taker’s wear
56 Cheese-spread brand
60 Line of rotation
61 Cable provider’s package deal
63 Heart of the matter
64 Canvas shelter
65 Drink specification
66 Go nowhere
67 Brief affirmation
68 Undo a deletion

DOWN
1 Rude guys
2 Admit bluntly
3 Marquee time
4 Passé
5 Not to be repeated
6 What we have here
7 Atomic particle
8 Blended family members
9 Big name at the Prado
10 Stratford’s river
11 Long-handled tool with teeth
12 Dark mark
14 Built for speed
17 Hard-to-please star
21 LAPD part
23 Auction condition
24 College major
25 Fur tycoon
26 Port- au-Prince’s land
28 Place to cybershop
29 Volcanic formation
30 Apply, as influence
31 Gumption
32 Signed off
34 Nutrition Facts measure
38 Post-parade debris
39 False witness
43 Justice succeeded by Kagan
45 Little devil
46 Well-practiced
47 Honeycomb compartment
49 Former poet laureate Dove
50 Special金色
51 Bus terminal
52 Chumps
53 Cinema sign
54 Former poet laureate Dove
55 Washed-out
56 Frattoria beverage
57 Winter Wiesel
58 Social grace
59 Those in favor
62 Vermilion, for instance

Dramatic Increase by Fred Piscop
There is only one startup in the world backed by the largest software company in the world and the most powerful bank in the world.

Kensho

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Somewhere on the Search for Meaning...  by Letitia Li

If I can only pass my quals...

I’ll give you half of my soul...

It’s not worth it! We’ll find another way!

Wait! You can’t!

You can’t let this place take your soul!

But if I don’t pass quals, my life will be over! Why are you stopping me?

It’s just an exam!

...one that grants you the right to be miserable for 2 to 20 more years!

Sudoku
Solution, page 9

Techdoku
Solution, page 9

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.
Warm up on the way

By Costa Christopoulos

The pesky trough which kept weather in the area cold and rainy this week will gradually transition to the east tonight. A ridge will begin to influence the eastern US tomorrow, allowing highs to reach the lower 40s°F (5°C). On Sunday, the ridge amplifies allowing much warmer air to overtake the region. Southerly winds will notch highs into the lower 50s°F (10°C) and bring overcast skies to the area. Winds could gust as high as 25 mph. We finally make it into the lower 60s°F (18°C) on Monday, but the trade-off is rainy weather.

Our neighbors to the west aren’t so lucky. This week, the Great Lakes region has been measuring snowfall in terms of feet. A cold airmass, which moved over the region earlier week, set the stage for several days of intense lake effect snow. Widespread snowfall totals of more than 40 inches were reported, with locations under the heaviest and most persistent bands picking up more than 63 inches! With that in mind, enjoy another warm weekend in Cambridge.

Extended Forecast

Today: Mostly sunny, with a high of 37°F (3°C). Northwest wind at around 15 mph, with gusts as high as 25 mph.

Tonight: Clear, with a low of 24°F (-5°C). West wind at around 7 mph.

Tomorrow: Partly cloudy, with a high of 42°F (6°C). Southwest wind at around 15 mph.

Sunday: Mostly cloudy, with a chance of morning showers. High in the lower 50s°F (10°C).

Monday: Rain likely, with a high in the lower 60s°F (18°C)

Situation for Noon Eastern Time, Friday, November 21, 2014

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By Tamas Kolos-Lakatos

This photo is a long exposure shot of the MIT Great Dome taken shortly after midnight. I recently got a new camera and was eager to take it out on a night photo adventure, no matter how cold it was that evening. After a few star trail shots with the Boston skyline, I decided to head to campus. There are many photos of the iconic Great Dome on the internet, so I wanted to try something different. I started exposing the image at 55 mm, and after two seconds I manually adjusted the zoom ring until I reached the wide-angle 17 mm view with another 2 seconds remaining on the shutter. I had to try it a few times to make sure I timed it right and got the zooming movement as smooth as possible. The result was an unusual, interstellar look to MIT.

Institute Double Take

Aperture: ƒ/22
Exposure Time: 20 sec.
Sensitivity: ISO 200
Effective Focal Length: 17-55 mm

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More students vie for 2015 externships than last year
Trading and finance opportunities among most sought after externship positions in this year's cycle

Exterships, from Page 1

round saw only 27 students accept externships and 26 decline. Many of the most popular externships were for trading companies, such as Five Rings Capital, Bank of America Merrill Lynch, Goldman Sachs, and Jane Street Capital. These companies received a combined total of 178 applications for their trading opportunities, and each ranked in the top ten for most applications received. By far the most sought-after position was assistant trader at Jane Street Capital, which received 83 applications. Rajeev K. Parvathala ’18, who had no prior experience in trading, was one of the students who received an offer from Jane Street. “I heard a lot of good things about it [the assistant trader position] from upperclassmen,” said Parvathala. “I enjoyed the interview process — all the questions were very mathematical and that’s one of the things that made me think I would enjoy the work.”

Parvathala will spend the month of January in New York City at Jane Street’s first and largest office. The most competitive program was a health care externship, Introduction to Surgery and Medicine at Tufts University. One student was accepted from 30 applicants. Other highly desirable externships included machine learning positions at Microsoft and Diffeo, both of which received 40 applications.

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more tech
New chair highlights Task Force recommendations

Millard states need for ‘precision’ when dealing with issues associated with divestment

Millard, from Page 1

learning on the traditional college campus and learning experience is a question MIT, like many schools, is exploring.

Millard has firsthand experience with edX classes: like other MIT stu-
dents completing General Institute Requirements (GIRs), he enrolled in
7.012.

"I really enjoyed every minute of it," Millard said. "I took a course, partly because I was really interest-
ed in biology, and partly because I wanted to see how it really worked...
I do know and I don't think anyone
else really knows," Millard said. "edX and online education are in many
instances better ways to commu-
nicate. So I think it's a means to an
end, and not an end in itself. I don't
want it to be a knee-jerk reaction. So Maria is go-
ing to get this conversation going, and part of it is going to be about divest-
ment. There are some degrees of freedom, and some non degrees of
freedom.

"I don't think the Corpora-
tion should respond, at least at this
point," he said. "We're listening care-
fully right now and we're still collect-
ing data. The endowment has not
made any decisions. We're waiting
for Maria's group, and I don't want to
preempt it with any of my own
feelings."

In answer to how he felt other
universities handled the issue, Mil-
ard cited Yale's response as a con-
structive one.

In a recent statement, the Yale
Corporation Committee on Inves-
tor Responsibility gave support to
the importance of climate change as a
global issue, but reported that di-
vestment would not be supported by
its policy regarding ethical investing.
They did, however, issue a statement
of support for shareholders resolu-
tions seeking increased transparen-
cy from companies on issues regard-
ing climate change.

"There are some reactions which
I think were constructive and I didn't
think of. I think Yale's in particular
was constructive," Millard said. "We
run our endowment much as Yale does, much as Harvard does. We
don't manage the money ourselves, we hire managers who manage the
money. So we can influence them. We do some direct investment, and
that we have complete control over."

The Corporation

"The governance of this place
works very, very well. My prioritar-
ity is to keep it running as a well oiled
machine," Millard said. "I have some
sort of dotted line responsibilities —
if you read the bylaws of this place,
one of the things the Executive Com-
mittee and the Board has respon-
sibility for, and I have responsibil-
ity for, is the stewardship of financial
assets and the raising of resources.

"My vision is a shared vi-
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MIT SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES
Olympics Bid, from Page 1

said he believes MIT will play a role in educating youth about sports, health, and wellness. Additionally, he said MIT might provide educational programs for Olympic athletes to return to after the games.

He also said a Boston Olympics would be a chance for innovation and research. For example, he said Professor Carlo Ratti of the Department of Urban Studies and Planning and his colleagues would take the opportunity to help improve transportation infrastructure by using mobility patterns extracted from real-time urban data.

The USOC will choose a city to move on to the international competition in mid-January. The host city will be announced in the summer of 2017.

—Daysi Gomez

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Tyto Alba by Tina Zheng, published in Rune Issue 35
Men’s basketball starts off new season with a big win
MIT Engineers defeat Gordon College 64-51

By Phil Hess

MIT placed three starters in double figures, led by 18 points from Justin M. Pedley ’16 and Ryan L. Frankel ’16, as it opened the 2014-15 men’s basketball season with a 64-51 victory on the road at Gordon College. The No. 16 Engineers held the Fighting Scots to 36 percent shooting while shooting 41 percent themselves.

A layup from Dennis R. Levene ’15 followed by a three-point shot from Timothy J. Butala ’17 gave MIT (1-0) and early 5-0 lead. Six minutes in Pedley hit on the first of his five treys in the contest, pushing the Engineers’ advantage to 11-4. Jaren Yang answered with a three-pointer for Gordon (0-1), starting an 8-1 run for the Scots. Taylor Bajema scored the last three points of the run, with his free throw midway through the half tying the game at 12-12. Another Bajema basket kept the contest tied at 14-14, but Pedley connected on another trey to put MIT back on top, a lead that the Engineers would hold the rest of the game.

Frankel and Andrew M. Acker ’15 each had four points of an 8-0 spurt for MIT that put it up 25-15 with 4:39 left in the half. The Engineers still led by 10 with less than two minutes left after another Acker basket, but Gordon was still within five at 42-37 with 14 minutes left. After neither team scored for two and a half minutes, Pedley connected on back-to-back threes to key a 9-0 run that gave the Engineers their biggest lead of the night, 53-37, on a Frankel lay in with 10 minutes to go.

With 7:39 left Pedley hit his final three-pointer of the night to extend the advantage to 56-39. MIT missed its final nine field goal attempts, but Gordon could not cash in as the Scots hit just 3-of-11 in the same stretch. The Engineers got enough points on the free throw line, hitting 8-of-13 from the stripe over the last two and a half minutes, to hold off any comeback attempt by Gordon.

Acker, who notched 14 double-doubles last season, was the other MIT player in doubles figures, finishing with 16 points and 10 boards. Frankel notched eight assists without a turnover while also picking up a pair of steals for the Engineers. Bajema hit on 8 of 12 shots from the field on his way to a team-high 19 points for Gordon and also led the team with seven rebounds and five assists.

MIT will be back in action on Monday, November 24 when the Engineers will open at home against Newbury College at 7 p.m.

MIT Football faces off against Husson University in Round 1 of NCAA Championships

After their first undefeated 9-0 season and New England Football Conference championship, the MIT football team was selected for the 2014 NCAA Division III Football Championships. Husson is coming off an 8-1 campaign, and they also were crowned champions of their conference, the Eastern Collegiate Football Conference. The teams will square off on Saturday, November 22 at 12 p.m.

—Austin Osborne

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UPCOMING HOME EVENTS

Friday, November 21
Women’s Swimming and Diving
7 p.m., Zesiger Center Pool

Saturday, November 22
Men’s Heavyweight Crew vs. Foot of the Charles
8 a.m., Charles River Squash vs. Connecticut College
10 a.m., DuPont Squash Courts
Women’s Swimming and Diving vs. Babson College
1 p.m., Zesiger Center Pool
Women’s Swimming and Diving vs. Bowdoin College
1 p.m., Zesiger Center Pool

Men’s Swimming and Diving vs. Babson College
1 p.m., Zesiger Center Pool
Men’s Swimming and Diving vs. Bowdoin College
1 p.m., Zesiger Center Pool

Monday, November 24
Men’s Basketball vs. Newbury College
7 p.m., Rockwell Cage

SPORTS SHORT

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