

The Boston Globe

MONDAY, MAY 4, 2015

In the news



Memory lane

Monday: Sunny and warm; high 76-81, low 57-62
Tuesday: Clouds, then rain; high 68-73, low 52-57
High tide: 12:26 p.m.
Sunrise: 5:36 Sunset: 7:47
Complete report, **B13**

Runway damage forced a halt to relief deliveries by large aircraft in Nepal, but officials said logistics were improving following the April 25 earthquake. **A3.**

European vessels rescued more than 4,000 migrants on the Mediterranean over the weekend as officials tried to thwart crossings from Libya. **A3.**

A pending deal would have Harvard mediators handle routine complaints brought by civilians against Boston police officers. **B1.**

The John F. Kennedy Profile in Courage Award was awarded to former US representative Bob Inglis, a South Carolina Republican, for a politically risky stand on climate change. **B1.**

Claims for winter storm damage have totaled \$2.3 billion nationwide in the first quarter of this year, most of them from the Northeast. **B6.**

Conservative author and retired neurosurgeon Ben Carson will formally announce his candidacy for the Republican presidential nomination Monday. **A2.**

The Walsh administration will hold four public meetings to encourage students, parents, educators, and others to propose changes in Boston's high schools. **B1.**

The Yankees completed a three-game sweep of the Red Sox with an 8-5 victory at Fenway. **C1.**

Thousands took to the streets of Boston and neighboring communities for the 47th Walk for Hunger. **B1.**



Counselors set to help Tsarnaev jurors

Specialists recognize stress of sifting through graphic testimony

By Milton J. Valencia
GLOBE STAFF

Michael Leeper can still recall the emotional testimony of the Oklahoma City bombing death penalty trial nearly 20 years ago, the chilling accounts and graphic descriptions of an explosion that killed 168 people and injured 680.

Leeper and the other 11 jurors who agreed to sentence Timothy McVeigh to death left the federal courthouse in Denver with unsettling images and dark thoughts.

"You're called on a jury, you don't have a choice of what you listen to and don't listen to," said Leeper, 67, who works in

real estate in Denver. "Everybody's going to deal with it in their own way."

But the jurors in the federal death penalty trial of Boston Marathon bomber Dzhokhar Tsarnaev — who have had to watch videos and see photos of the explosions and the resulting injuries, including blown-

off limbs — will have some help dealing with the trial's emotional aftermath. Unlike the McVeigh jurors, they will have access to mental health counseling.

US District Judge George A. O'Toole Jr. will make services available to the 18 jurors and **JURORS, Page A5**

Logan drafts climate agenda

Targets energy use, emissions

Aims to protect against sea rise

By David Abel
GLOBE STAFF

In a major effort to address climate change, officials at Logan International Airport plan to make significant cuts to carbon emissions, curb energy consumption, and spend millions of dollars to protect runways and terminals from rising seas.

Airport officials said their plan makes Logan among the nation's first major airports to take substantial action to confront its contribution and vulnerability to climate change.

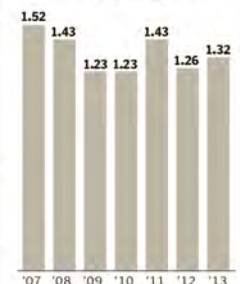
While environmental advocates praised the plan, they said much more is needed to offset the massive amount of greenhouse gases Logan produces and urged even more ambitious goals. They also questioned how Logan intends to meet its goals; officials could not provide specifics.

The airport plans to cut its carbon emissions 40 percent and energy consumption by 25 percent below 2012 levels by 2020. Officials also plan to curb the amount of waste produced by passengers by 2 percent every year by 2030, reduce water use by 1 percent every year over the next 10 years, and increase the recycling rate by 60 percent by the end of the decade.

With sea levels expected to rise 2 feet to 6 feet by the end of the century — and as much as **LOGAN, Page A4**

Greenhouse gases

Billions of pounds of CO₂ emitted at Logan Airport:



SCULPTURE FILLS GREENWAY SKIES



Half-acre net tethered between buildings to waft overhead until Oct.

By Malcolm Gay
GLOBE STAFF

Is it a giant jellyfish? A spaceship? An outsized butterfly net?

Whatever it is, Brookline artist Janet Echelman's light-as-air sculpture, which turned heads as it soared over the Rose Fitzgerald Kennedy Greenway on Sunday morning, took a village to raise.

Arriving in the wee hours of the morning, crews closed roads to make way for the project's six cranes. With roughly 50 workers on site, the sculpture — a vast net of rusty or-

ange, magenta, and green hues that will float above the Greenway until October — emerged from an impossibly small wooden crate, hoisted, inch by inch and crane by crane, to span roughly half an acre in the air.

It was a colossal choreography of man and machine, as cranes lifted one portion of the net, then another, only to hand them off to workers who hand-winched them to buildings around the Greenway, fastening them tight.

But if hoisting the sculpture **GREENWAY, Page A6**



Artist Janet Echelman, with Michael Nichols of the Greenway Conservancy, watched her artwork as it was lifted into position Sunday morning.

S.E. Mass. casino bids face critical tests

Vote, financing deadline loom

By Sean P. Murphy
GLOBE STAFF

BROCKTON — The state's efforts to fulfill its promise to bring a resort casino to economically stressed Southeast-

ern days, beginning Monday, when two would-be casino developers must submit detailed financing plans to the state Gaming Commission by 5 p.m. or face elimination.

Backers of those two proposals, one envisioned for New Bedford and the other in Somerset, need to show they

the state's third and final resort casino license.

A third would-be casino developer has already provided a financing plan but faces a different kind of do-or-die test: Brockton voters are scheduled to go to the polls May 12 in a referendum the developer must win to keep its dreams

Somerset groups miss their deadline, and if Brockton voters say no to a casino a week later, then the prospects of a resort casino in the region would suffer a major setback, perhaps even a fatal one.

"It seems like nothing is easy in Southeastern Massachusetts," said Donald P. Set-

Huge aerial sculpture wafts above Greenway

► GREENWAY

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resembled what organizers called a "crane ballet." Its planning and design were equally intricate — a creative collaboration between Echelman, structural engineers, software developers, lighting specialists, building contractors, political officials, the Rose Fitzgerald Kennedy Greenway Conservancy, owners of nearby property, and more.

"It's a bit of a coming-out party for public art on the Greenway," said Conservancy executive director Jesse Brackebury.

It is also a work of collective imagination. "I ask what is possible, and then the engineers tell me this is possible, and within that I start to design," said Echelman, 49, who has constructed similar aerial sculptures around the world.

In Boston, Echelman is exploring a contrast between the ephemeral and the permanent: "I started thinking about the way Boston ambitiously reshaped its environment," she explained. The sculpture's three voids are meant to evoke three hills that once dominated Boston's landscape but were razed to create landfill. Similarly, its colored bands are intended to recall the elevated highway that defined the Greenway space before the Big Dig banished it below ground.

The Greenway commission, the Brookline artist's first in Boston, is her most complex project to date, incorporating a structural net to support the floating form.

"It's basically a spider web — a stiff spider web that's cast between supporting buildings, and it's the spider web that is holding her sculptural net," said Patrick McCafferty, a structural engineer at Arup, the engineering firm Echelman works with to design her creations.

Constructed of high-tech rope that is eight times stronger than steel, the web takes a shape that is largely determined by the surrounding built environment, including which buildings have excess load-bearing strength.

"We're tapping into the un-



bridled potential energy of the site," said McCafferty, noting that the kinematic sculpture demanded structural and engineering analyses more complex than most buildings. "You usually see buildings as static, staid things, but they're extremely dynamic, and that's manifested through the sculpture's form."

Arriving mid-morning sporting a hard hat, Echelman marveled at her first sighting of the Greenway sculpture, weighing roughly 1 ton and ascending 365 feet at its highest point. Floating between anchor points at One International Place, 125 High Street, and the InterContinental Hotel, the sculpture boasts more than a half-million knots and more than 100 miles of rope.

The work, which Echelman has yet to title ("I wanted to meet it first"), may appear gossamer light, exquisitely sensitive to the subtlest environmental shift as it shimmers and pulses in the breeze. By another measure, however, it is a giant sail: a 2,000-pound kinetic mass that will exert wildly variable forces on the buildings



PHOTOS BY DINA RUDICK/GLOBE STAFF

The vast net of rusty orange, magenta, and green colors floated above the Greenway in downtown Boston and was reflected in neighboring buildings as it was installed Sunday.

that support it.

"We happen to be standing in one of the most windy corridors of downtown Boston," said McCafferty, adding that the sculpture is designed to with-

stand wind speeds of 105 miles per hour. "We're talking about anywhere between 50 and 70,000 pounds of force the net is putting on any one of these buildings under a wind event,

so it's not for kids."

Neither is its installation.

"It can feel as complicated or more so as building a high-rise," said Micah O'Neil, a senior project manager at Shaw-

mut Design and Construction, which coordinated the installation.

The sculpture is a study in contrasts, not only between its own strength and flexibility, but also between the rigidity of the built environment and what Echelman deems its "monumental softness." And while it employs state-of-the-art engineering, a team of craftsmen in Washington state also used age-old nautical techniques to hand-splice and knot the nets.

"This is very much about handcraft and ancient traditions as well as about the newest technology," said Echelman, adding that she uses bespoke Autodesk software to design her sculptures.

The work, whose cost the Conservancy estimates at \$1.25 million, is part of the nonprofit's push to use art to lure visitors to the park, temporarily transforming it with contemporary exhibits.

"It changes perceptions of what the public thinks of their space," said Lucas Cowan, the Greenway's curator for public art. "We knew this was going to challenge a lot of people in regards to what they were viewing and what the notion of public art was. It's not just a bronze or a static object."

Cowan is now designing programming to complement the sculpture, which joins Shinique Smith's mural in Dewey Square Park and a planned sculptural installation this June at the Chinatown gate.

Over the next week, Echelman will fine-tune the sculpture's lighting, which will shift with the wind at night.

Ultimately, she said, the work is about the viewer's experience. "If you come and lie down in the grass underneath and look up and notice the changing patterns of wind, I feel that you have experienced the work," she said, "creating your own meaning, finding your own observations about nature and the city."

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Southeastern Mass. casino bids facing critical tests soon

► CASINO

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ersert Board of Selectmen, who says the region badly needs the economic boost a resort casino could provide. "We're already way behind."

The 2011 casino law divided the state into three geographic regions, and stipulated a resort casino in each, to help spread out anticipated new jobs and other economic benefits. The state gambling commission has already awarded two of the three resort casino licenses: in Western Massachusetts to MGM Resorts, which recently broke ground on an \$800 mil-



JOHN SLADEWSKI/ASSOCIATED PRESS

New Bedford 'stands ready to advocate for the

vide and conquer the long list of registered voters.

Don't waste time with anyone who hasn't voted at least twice in the last eight elections, he said.

At a "war room" staffed with paid consultants, Curtis walked a visitor to a color-coded city map tacked up on the wall. "This is the center core," he said, passing his hand over the map. "We're going door to door along here."

Curtis stubbed a finger on the orange-colored southwestern quadrant of the city map. Historically, it turns out the highest percentage of voters.

Fate of casinos depends heavily on votes

The 2011 state casino law divided the state into three geographic regions, and stipulated a resort casino in each, to help spread out anticipated new jobs and other economic benefits. Under the law, no town or city can be forced to accept a casino within its borders. Six of the 10 communities that have voted on casino proposals have approved them. No date has been set for Somerset's vote, but Brockton is scheduled to vote May 12 and New Bedford is scheduled to vote June 23. How other communities voted:

