

DAVID BEBEE, RECORD STAFF

WATERLOO REGION RECORD

Rain
High 15
Details, C14

THURSDAY,
OCTOBER 18, 2012

SERVING KITCHENER, WATERLOO, CAMBRIDGE AND THE TOWNSHIPS

The Record.com

Third man charged in shooting

Landfill revenue lost to private sector

Paige Desmond, Record staff

WATERLOO REGION — Private trash haulers are eating up the region's revenues in what one regional councillor says could be the biggest problem to sort out in the 2013 budget.

A report to Region of Waterloo councillors Tuesday said industrial, commercial and institutional garbage brought to the landfill is already 29,000 tonnes less than expected, causing a \$2.1-million revenue shortfall.

That's expected to reach 40,000 tonnes and \$2.9 million in lost money by the end of the year.

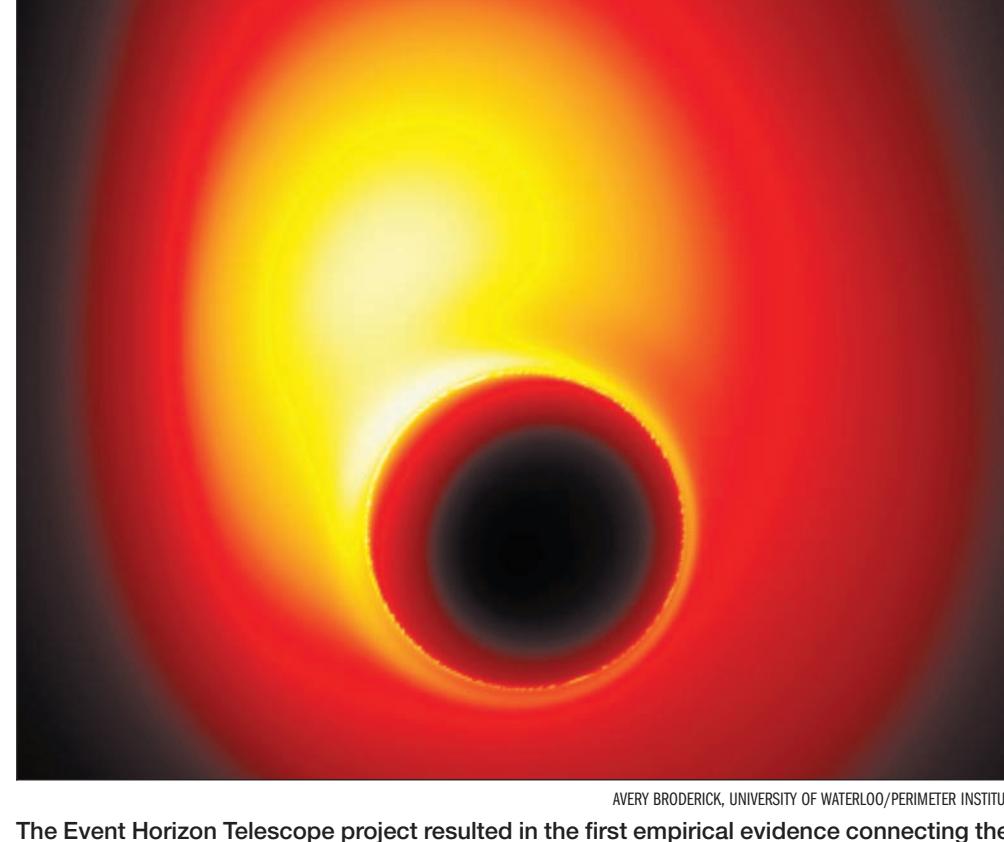
"Going forward, how are we going to deal with that?" said Coun. Tom Galloway. "I think that's one of the key issues in our 2013 budget deliberations."

Last year, tipping fee revenue was \$1.75 million less than expected.

Private hauling companies strike up deals with industry, businesses and institutions to dispose of their trash. They tie their fees to the regional rates, offering to do the work for less.

Most of the region's revenue from that sector pays for its recycling program.

► **Waste** continued on page A10



AVERY BRODERICK, UNIVERSITY OF WATERLOO/PERIMETER INSTITUTE

The Event Horizon Telescope project resulted in the first empirical evidence connecting the spin of black holes and the jets they produce.

Local theorist unlocks secrets of black holes

UW prof and team produced images of a black hole for first time

Linda Givetash, Record staff

WATERLOO — Scientists are one step closer to understanding the puzzling phenomenon of black holes in the universe.

Avery Broderick, associate faculty member at the Perimeter Institute and the University of Waterloo, was part of a scientific

team that, for the first time, produced imaging of a distant black hole and the area surrounding it.

"These are some of the most energetic objects in the universe, some of the most powerful objects in the universe. You could even say black holes are the engines of the cosmos," Broderick said.

Black holes are areas of space where dense matter crushes into a compact size, resulting in a mass that can be thousands to billions of times greater than that of the sun.

► **Holes** continued on page A2

Teachers' union suggests one-sentence comments in reports

Liz Monteiro, Record staff

WATERLOO REGION — The Elementary Teachers' Federation of Ontario is advising its members to write only the minimum comment required — a single sentence, for ex-

ample, as opposed to a paragraph — on upcoming progress report cards.

In an advisory that was sent to union locals this week, the four-page memo tells teachers to use their professional judgment when completing the

progress report but that a single sentence indicating strengths and next steps for improvement is appropriate.

The advisory also provides sample comments that teachers can use: "The term 'personalized comments' does not

mean that every student must have a different comment. A meaningful one sentence comment may apply to several students in one class."

► **Union** continued on page A11

► Luisa D'Amato's view, B1

Victim's grandmother says she hopes for 'justice down the road'

Brian Caldwell, Record staff

KITCHENER — A grieving grandmother watched Wednesday as a third suspect in the shooting death of Adam Jones appeared in Kitchener court.

Tyrone Wint, 22, is charged with first-degree murder along with Kadeem Gabriel, 21, who also made a brief appearance following his arrest last week.

The third suspect, Jerome Phillips, 20, is accused of being an accessory after the fact in connection with the Sept. 6 shooting in Kitchener during a suspected drug deal gone bad.

Jones, 25, was shot once in the head in the parking lot of the Belmont Avenue West apartment building where he lived.

A slight man with a neatly trimmed beard, Wint was arrested without incident Tuesday at a Kitchener business.

Staff Sgt. Chris Downey, head of the Waterloo Regional Police homicide branch, said a team of 12 detectives had Wint on their radar since early in the investigation of the slaying.

► **Shooting** continued on page A10

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New management

Subsidiary of Brazilian-based company to run XL Foods

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On the web



Border Guard Training

Public Safety Minister says Canada's border guards will be supplied with firearms by 2016. Click on Multimedia.

Today's question

(posted until noon)
What is your opinion of ongoing events related to hockey's Team Canada 1972?

Yesterday's results

How would you rate Dalton McGuinty as Ontario premier?
Responses: 395
Poor: 246 (62 per cent)
Fair: 69 (17 per cent)
Good: 60 (15 per cent)
Excellent: 20 (six per cent)

Quote of the day

"Nothing is so admirable in politics as a short memory."

John Kenneth Galbraith (1908 - 2006)

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Pick 3: 0 7 6
Pick 4: 9 9 8 4
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Poker: A-D, J-C, 7-C, 8-H, Q-D
Lotto 6/49: 4, 20, 22, 23, 42 & 44.
Ontario 49: 7, 8, 19, 24, 26 & 37

Who we are

Editorial
519-895- plus extension
News editor, Neil Ballantyne x5633
nballantyne@thercord.com
City editor, Harvey Taylor x5650
htaylor@thercord.com
Deputy city editor, Andrew Bruce x5611
abruce@thercord.com
Business editor, Ron DeRuyter x5620
rderuyter@thercord.com
Life/Arts editor, Neil Ballantyne x5633
nballantyne@thercord.com
Sports editor, Ron DeRuyter x5620
rderuyter@thercord.com
Photo/Graphics editor, Rod Frketich x5670
rfrketich@thercord.com
Associate editor, online, Karlo Berkovich x5668
kberkovich@thercord.com
Newsroom fax
519-894-3829

Other departments 519-895- plus extension
Director of advertising, Donna Luelo x5510
Classified manager x5680
Director of finance, Claire Bentzen-Bilkvist x5505
Director of reader sales and service
Jonathan Scott x5580
Community partnerships x5574

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sudoku

By Dave Green

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

Difficulty Level ★★★

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10/18

Previous solution

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

Difficulty Level ★★★

How to play

The object is to place the numbers 1 through 9 in empty squares so that each column, row and 3x3 box contains each number only once. The difficulty level of Sudoku increases from Monday to Saturday.

Image created with multiple telescopes

► **Holes** continued from A1

These massive, dense objects create a gravitational pull so strong it prevents even light from escaping — appearing as black holes.

Aside from the interest in black holes spurred on by science fiction novels, scientists like Broderick have many questions about the existence of these objects. Why they occur and how they affect the growth of the galaxies they exist in are among the questions scientists are trying to answer.

"We would like to know how the evolution of the black holes themselves affects the evolutions of galaxies," Broderick said.

To better understand black holes, scientists need to determine how they interact with the matter around them, whether or not they spin, the result of spin and what causes jets of light to be seen around the hole.

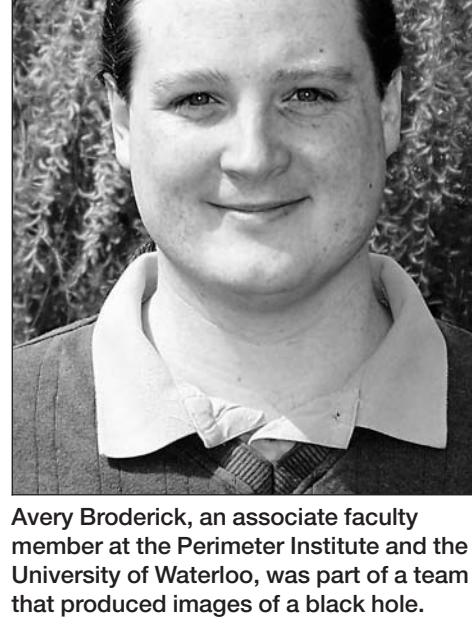
At 50 million light years in distance, Broderick and the team of scientists coordinated by Shep Doeleman at the Massachusetts Institute of Technology Haystack Observatory aimed to make visible some detail of the activity around a black hole in the M87 galaxy.

Their project — called the Event Horizon Telescope — resulted in the first empirical evidence connecting the spin of black holes and the jets they produce. Until now, the connection only existed in theory.

For Broderick, these revelations are important steps toward defining the physics of black holes to answer the questions he has about gravitational theory.

"My big goal is I would like to learn enough about accretion and jet formation to remove them and test general relativity," Broderick said.

General relativity — Einstein's theory on gravitation — has passed wherever it's



Avery Broderick, an associate faculty member at the Perimeter Institute and the University of Waterloo, was part of a team that produced images of a black hole.

been tested. But black holes offer a completely different environment where the theory may need adjustments in order to work.

While the recent data of the black hole in the M87 galaxy brings Broderick a step closer to understanding its physics, the image is far from clear.

"You can imagine it's sort of like taking a picture and then blacking out all but a handful of pixels. With a handful of pixels it's possible to tell the difference between your friend and your dog, but it might not be good enough to tell whose dog it really was," Broderick explained.

Using a technique called Very Long Baseline Interferometry, the image was devel-

oped through data collected from multiple telescopes located on different corners of the planet that together acted as an Earth-sized telescope.

This technology that produced the current imaging data wasn't possible 30 years ago, Broderick said, and it continues to improve.

With the ongoing construction of a new observatory in northern Chile that will eventually house more than 60 radio telescopes and highly sensitive interferometer,

the ability to develop a more detailed image of the black hole is in the near future.

"With that on board, we're going to uncover many more of those pixels in that picture to the point that we will be able to say, 'aha it's a golden retriever, his name is Sparky,'" Broderick said.

"The goal ultimately is to have something that does produce a picture, that does take a snapshot."

lgivetash@thercord.com

DO YOU KNOW SOMEONE WHO'S A COMMUNITY BUILDER?

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For more information and a nomination form, please go to thercord.com/barnraiser

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It honours a practice and spirit that is deep-rooted in our community, one that sees individuals and groups work together to benefit everyone, without regard to personal gain. This award will be given annually to the individual or group in Waterloo Region that best exemplifies that community-minded spirit.

Deadline for nominations is Friday, November 2, 2012

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