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Oyster Restoration Shows Promise

188 restored acres in the Choptank tributary are thriving.

By KARL BLANKENSHIP
Bay Journal News Service

Hidden under the surface of Maryland's Harris Creek is what looks like — at least for now — one of the Bay's greatest successes. It is, unfortunately, one that hardly anyone can see.

Work completed through the end of last year restored 188.6 acres of oyster reef habitat on the bottom of the Choptank River tributary, most of it in places more than 6 feet deep.

That's already made it more than twice the size of any sanctuary-based oyster restoration previously undertaken around the Bay. Yet another 85 acres of new reef construction is under way for this year.

By the time work is wrapped up in 2015, the project will cover roughly 350 acres, and those areas will have received nearly 2 billion baby oysters, or "spat." Unknown numbers of naturally produced oysters also landed on the site during an unusually large 2012 oyster spawn.

"There are hundreds of millions more oysters than when

See OYSTERS Page A5



CAPITAL NEWS SERVICE PHOTO BY TAZEEN ASIYA AHMAD.

Maryland Rep. Donna Edwards, chair of the Democratic women's working group, supports the women's economic agenda in Congress. Photo by Tazeen Asiya Ahmad.

Maryland Lawmaker Pushes Women's Economic Agenda In Congress

By TAZEEN ASIYA AHMAD
Capital News Service

WASHINGTON- Maryland Congresswoman Donna Edwards remembers her son curled up in the corner of a conference room where she was having a meeting, because he was sick and she couldn't afford time off to stay home with him.

Over the years, Edwards, D-Fort Washington, has worked for minimum wage, waited tables for tipped wages, and struggled to find quality, affordable childcare. That was before she was elected to Congress.

She said her firsthand experience with these issues has been invaluable as she works to bring awareness and change for working women around the country.

"These are the issues that really plague women in the workplace and get in the way of their economic success," Edwards said.

As the chair of the Democratic women's working group, she is pushing for an increase in the minimum wage, paid leave, affordable, quality childcare, and equal pay for equal work.

She speaks passionately about the importance of raising

the federal minimum wage, something she says disproportionately affects women.

"I think it is a win-win situation if we raise the minimum wage...but it should be indexed to inflation" Edwards said.

She acknowledged the work of Maryland legislators in rais-

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Maryland Looks to Improve Air Quality

By BRIAN COMPERE
Capital News Service

COLLEGE PARK — A large percentage of Maryland's air pollution could be reduced after the Supreme Court ruled last month that the EPA has the authority to regulate emissions that cross state borders.

The Environmental Protection Agency's Cross-State Air Pollution Rule, part of the federal Clean Air Act, aims to hold power plants accountable for their emissions that are blown to downwind states. The rule requires that they lower emissions of sulfur dioxide, which can form fine particulate matter, and nitrogen oxide, which can form ozone and fine particulate matter.

The EPA created the rule in 2011, but it was blocked from enforcing it in 2012 by a federal appeals court decision. The Supreme Court decision tasked the federal appeals court with determining how the rule will be implemented, said Josh Berman, staff attorney for the Sierra Club.

Up to 70 percent of Maryland's ozone pollution comes from out of state, according to Maryland Gov. Martin O'Malley.

See AIR QUALITY Page A3

Maryland Doctors Using 3D Imaging To Improve Operations

By BRIAN COMPERE
Capital News Service

ANNAPOLIS — John "Bips" Egnor can simultaneously play a keyboard, two harmonicas — one on each side of his face — and a bass guitar with his feet. But after knee surgery a few months ago, playing a bass with his feet suddenly became more difficult.

Egnor, 67, had both knees replaced in January to straighten out his legs, which were not the same length. They had been shifting outwards for years after he had knee surgeries as a college football player to remove cartilage.

"After a while, I realized why I was playing wrong notes on the bass: My leg wasn't cocked anymore; now it was straight, so I was having to make those adjustments," said Egnor, of Pasadena. "But I played [Thursday night] at the Delaware Sports Hall of Fame and I had the stamina."

Dr. James MacDonald, an orthopedic surgeon at the Anne

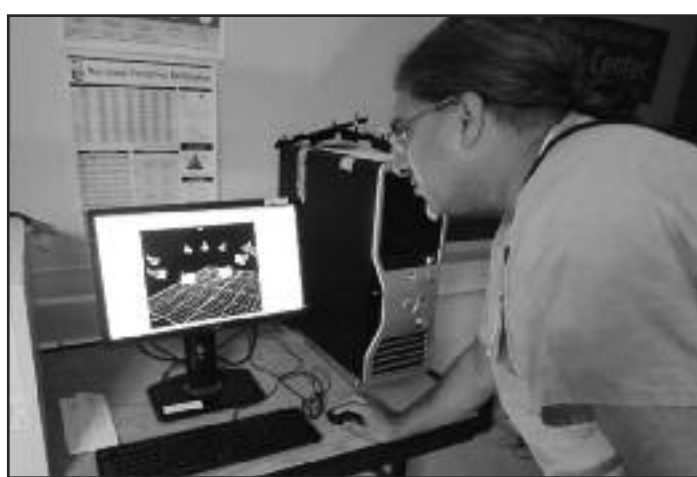
Arundel Medical Center in Maryland, chose to replace both of Egnor's knees using 3D imaging software to produce more accurate replacement parts for the knee out of metal polyethylene.

This sort of 3D imaging allows surgeons like MacDonald to be more precise. In the future, 3D printing could allow doctors to print replacement parts for knees, make cells to help heal wounds, or create blood vessels or even organs.

After MacDonald uses magnetic resonance imaging scans to produce a 3D image, he then sends to Smith & Nephew, a medical equipment manufacturer, which sculpts an implant custom to that particular knee.

"I know that his final result was actually better than if I had done the procedure in the standard way," MacDonald said. "It was something that made a huge difference for this gentleman."

These custom implants are then sent back to MacDonald, who can use them to replace a patient's knees through an oper-



CAPITAL NEWS SERVICE PHOTO BY BRIAN COMPERE

Ivan George uses virtual reality software at Anne Arundel Medical Center.

ation that is faster, more accurate and can cause less blood loss.

3D printing technology could allow medical manufacturers to create custom implants for patients like Egnor even quicker and cheaper.

Labs such as the Wake Forest Institute for Regenerative Medicine are working to make it possible to create parts for

custom knee replacements, as well as other reconstructive procedures, with 3D printers. Researchers are able to do this in lab settings, but the technology is not ready for patient use.

Flat structures like skin are the easiest to 3D print, followed

See 3D Page A3

Hoyer Attends the Annual Maryland Democratic Party Gala

By PRESS SECRETARY
House of Representatives

UPPER MARLBORO, MD — Congressman Steny H. Hoyer (MD-5) attended the annual Maryland Democratic Party Gala, where he introduced Members of the Maryland Delegation and discussed their priorities in Congress. At the event, the Governor of New Hampshire, Maggie Hassan, served as the keynote speaker.

"I was so proud to attend tonight's event to celebrate the extraordinary work of Maryland Democrats and get fired up for a busy election season," stated Congressman Hoyer. "I'm honored and privileged to serve with an extraordinary Congressional Delegation and I'm pleased we had the opportunity to discuss how we are working to support job creation and expand middle-class opportunities for more Marylanders. As a Delegation, we continue to pursue the Make It In America jobs plan and are fighting to address important priorities, including increasing the federal minimum wage, restoring emergency unemployment insurance, fixing

our broken immigration system, and passing the Employment Non-Discrimination Act."

"We were also very fortunate to have one of the Democratic Party's rising stars, Governor Maggie Hassan of New Hampshire, as our keynote speaker this evening," continued Congressman Hoyer. "I thank her for joining us in Maryland, a state that, much like her own, has a long and proud history of strong Democrats standing up for the values of equal opportunity and justice for all. It's clear she has stood up for New Hampshire and has exhibited strong leadership in moving her state forward."

Federal and state officials attended this evening's event, including Senator Ben Cardin, Congressman Elijah Cummings, Congressman Chris Van Hollen, Congressman Dutch Ruppersberger, Congressman John Sarbanes, Congressman John Delaney, Governor Martin O'Malley, Lt. Governor Anthony Brown, Attorney General Doug Gansler, Comptroller Peter Franchot, Maryland Senate President Mike Miller, and Speaker Mike Busch.

INSIDE

O'Malley Announces Maryland Ranks in the Top 10 Among Bicycle Friendly States

Maryland is ranked number 7 in the nation, up from number 11 last year, and number 2 among Mid-Atlantic and North East States. Thanks to the passage of the landmark Transportation Infrastructure Investment Act of 2013.

Community, Page A3

Don't Mess with Magic: A Man Too Busy to Hate

Last week, in an interview with CNN's Anderson Cooper, Donald Sterling said that Magic Johnson, who was diagnosed with HIV in 1991, was not a good role model for kids, "should be ashamed of himself" and "should go into the background."

Commentary, Page A4

Legislation to Improve Air Quality, Save Consumers Money and Support Local Green Jobs

The legislation will allow the State to continue to offer a tax credit on the purchase of plug-in electric vehicles through June 2017 and, in most cases, increases the value of the tax credit by changing the calculation based on a vehicle's battery size.

Business, Page A5

Movie Review: "Blue Ruin"

A classic American revenge story that recently won the FIPRESCI International Critics Prize at the Cannes Film Festival where it screened in the Directors' Fortnight. The film follows a mysterious outsider whose quiet life is turned upside down when he returns to his childhood home to carry out an act of vengeance.

Out on the Town, Page A6

Earth Talk

Dear EarthTalk:

What are the environmental implications of the so-called "driverless car" that Google and others are working on right now?

— April Jackman,
Barre, MA

Features, Page A7

Towns and NEIGHBORS

In and Around Morningside-Skyline

by Mary McHale 301 735 3451

Dwight Holloway, 1991's Good Neighbor of the Year, dies at 94

Dwight Floyd Holloway, the Skyline community's most involved and most beloved neighbor, died May 22. He was 94.

He grew up on a farm owned by his father, in Lunenburg County, Virginia. At that time the County had no provisions for African Americans to attend high school unless they lived in Victoria, Va. So, Dwight's dad organized a group of families and purchased a bus to provide transportation to a high school 20 miles away. This experience probably gave Dwight his interest in community and political affairs.

In 1942 he served with the Army in North Africa and Europe, and was honorably discharged as sergeant in 1945. He joined the reserves, served during the Korean War, graduated from the Command NCO Academy, and retired as master sergeant at Andrews.

He was our chaplain, opening and closing each Skyline meeting with a prayer. He served four years as president of the Skyline Citizens Association and 40 years as Road & Safety Chairman. He knew the head of every government department, and the phone number to reach him or her. He was the guy everyone called—for a cracked sidewalk, unlicensed car, barking dogs, stop sign missing. And those department heads listened to him; they respected him.

Dwight managed the annual Spring Clean-Up, delivered countless newsletters, welcomed newcomers, visited the sick and called on families who'd suffered a tragedy. In 1991 the Prince George's County Council named him Good Neighbor of the Year.

On April 14, 1956, he married the love of his life, Ruby Fowlkes, and they've been seldom apart. In 1973 he joined Emmanuel Baptist Church in Washington, has been active in ministry there, and in 1976 was ordained Deacon. He was representative to the National Baptist Convention and other Baptist organizations. In 2003 the church

honored Dwight and Ruby for their exemplary service.

Ruby and their son Dwight "Chipper" Holloway, his sister Annie Sue Holmes and brother Clarence Holloway survive him. He is at rest at Cheltenham Veterans Cemetery.

Every year on Valentine's Day he used to bring me a heart-shaped box of chocolates. I'll miss that.

Neighbors

Jolene Ivey, who is running for lieutenant governor along with Doug Gansler, candidate for governor, visited the last Morningside Town Meeting and spoke for a few minutes.

Eva Foster, of Skyline, has retired from the Department of Energy after 39 years' service.

My former next-door neighbor Theodora "Teddy" Burke now lives in Delaware and is the owner of Arbeca Ibizan Hounds. She breeds and shows Ibizan Hounds which come from Spain and were primarily used for hunting rabbits.

Condolences to Sr. Luciana, of Skyline, on the death of her mother, Hanna, on June 3, and her brother, Telwdemedhen, who also died recently. They lived in Eritrea, in eastern Africa.

Vacation Bible School

Suitland Road Baptist Church, 6412 Suitland Road, invites you to their Wilderness Escape, also known as Vacation Bible School. "Escape with the Israelites as they leave Egypt. You'll get to hang out with Moses as God leads this surprising adventure." Time: June 16-20, 7 to 9 each night. For more information, call Beverly Acors, 301-928-0860.

Fish Fry & Yard Sale

Davies Memorial Unitarian Universalist Church, 7400 Temple Hill Rd., invites you to their Huge Yard Sale & Fish Fry Lunch on June 14, 9 a.m. to 2 p.m. For information, www.dmuuc.org or 301-449-4308.

Morningside Memories

Newly-elected council members Robert A. Morris and Lee Parr were sworn in on May 14, 1954, at the old Town Hall, corner of Woodland Road and

Forest Drive. They took their seats on the council with Mayor Matthew P. Rosch and Councilmen W. Jay Lowery and Donald P. Holmes.

May they rest in peace

Marilyn Joan Bozick, 84, singer, artist, athlete, and wife of former State Senator Peter Bozick, died April 17. The Bozicks once lived in Camp Springs, and Marilyn was cantor at St. Philip's Church. She was born in Queens, N.Y., the eldest of three daughters of Francis Paul and Lillian Reilly Scuderi. She was known for her singing during a 30-year period when she performed at churches in Southern Maryland and at the National Shrine of the Immaculate Conception in Washington. She was also an artist, and before her family moved to Maryland, she played shortstop for the semi-pro baseball team Long Island Jewels. She was the wife for 65 years of Peter Bozick, mother of seven, grandmother of 25 and great-grandmother of 12. Survivors include her sisters Dorothy Chiaramonte and Carol Lodowski.

Chris Villa, 62, of Greensboro, Ga., a graduate of Bishop McNamara High and Mt. Calvary School, died May 12. He graduated from the University of Maryland in 1973 and spent 40 years with IBM. Survivors include his wife Mona, son Mark and brother Rick.

Milestones

Happy birthday to Aimee Crawford, Joel McCune and Cameron Nichols, June 13; Kara Dameron, Dot Pfeil and June Zaccagnino, June 15; Helen Padgett and Lucia Scott, June 16; Bill Kimbles, June 18; and Stephanie Phipps, June 19.

Happy anniversary to Jill and Ken Kimmel, their 26th on June 15; Ange and Marlyn Meoli, their 52nd on June 16; and Steve and Cornelia Blankenship, their 9th on June 18.

A special greeting to Hattie Wiggins of Clinton who turned 100 in May.

Brandywine-Aquasco

by Ruth Turner 301 888 2153

COMMUNITY DANCE

Attention all dancers and non-dancers. St. Philip's Church will be having Fun Night with Line and Hand Dancing on Friday, June 13, 2014 and June 27, 2014 from 7:00 PM-9:00 PM. The address is St. Philip's Church Baden Parish Fellowship Hall 13901 Baden Westwood Road, Brandywine, Maryland 20613-8426. Admission is \$2.00. Come out and get in the groove with the dances and have some fun.

2014 ANNUAL RECOGNITION DINNER-SCHOLARSHIP AWARDS

Prince George's County public school employees and world class educators were recognized for their exemplary service May 29, 2014 at Martin's Crosswinds in Greenbelt, Maryland. These educators were recognized for their excellent work they do every day to support our students. Excellence in Education Foundation for PGCPS, Inc. awarded scholarships totaling \$140,000 to 50 deserving PGCPS graduates, all of whom have distinguished themselves for recognition.

The Community Service Scholarship was awarded to 22

students who best personify an ongoing commitment to exemplary community service. The Leadership Scholarship was awarded to 22 students who have demonstrated activism in the cause of freedom, democratic values and constitutional principles and the Chief Executive Officer's Scholarship was awarded to 6 students who have distinguished themselves as a scholar.

BIRTHDAY GREETINGS

Happy birthday to Clinton United Methodist Church members William King, Stephanie Samuel, Dae Panda-Massey, Jasmine Taylor, Jody Marsh, Sandra Miley, Ruth Wilson, Rita Pinkney, June Fauber, Sally Fauber, Louise Gordon, Madison Falby, Susan Matthews, Tawana Lindsay, Carol Bell, Ed die Wilson, Barbara Marsh, Brian Pratt, Beverly Baker, Raymond Porchea, Kendra Neal, Rodney Tyree, and Shiloh Bell who are celebrating birthdays during the month of June.

WEDDING ANNIVERSARIES

Happy Anniversary to Joachim and Ester Neckere, Sheila and

Nathaniel Holmes, Tony, Sr. and Beatrice Chapman, Idena and Henry Thomas, (Dr.) Dandeson and Rosamond Panda, Pauline and Brewer Clark, Robert and Sandra Miley, Daniel and Carolyn Glee who are members of Clinton United Methodist Church celebrating Wedding Anniversaries during the month of June.

SUMMER CAMP PROGRAM

Community Based Family Child Care Home (FCCH) is now accepting enrollment for children ages birth to 5 years. Time to explore Summer Camp Program is now enrolling ages 6-12 years. Theme this summer is Character Building. Summer excursions and field trips are planned weekly that include going to the Zoo, Fishing, Bowling, Nature Parks, Plays, Beach and more activities. Upcoming excursion: Sign up now for Tree House Camping 3 day, 2 night excursion June 27-29, 2014. Math and English Tutoring K-12 is offered on Saturdays. Space is limited. The address is 12703 Thrush Place, Upper Marlboro, Maryland, 20772. Contact 301-801-8291 or www.time2explore123.com.

Neighborhood Events

Edwards Statement on Report for Water Resources Reform and Development Act

Washington, DC — Donna F. Edwards delivered the following statement on the House Floor today on the Conference Report to H.R. 3080, the Water Resources Reform and Development (WRRDA) Act of 2014. Congresswoman Edwards was a conferee to the WRRDA Conference Committee, and the House passed the Conference Report under suspension of the rules. Below are the Congresswoman's remarks as prepared for delivery.

"I want to thank Chairmen Shuster and Gibbs and Ranking Members Rahall and Bishop, and congratulate them and the staff on their work on this conference. I rise in support of this bill.

However, I should point out the environmental streamlining provisions in the House and Senate passed-versions were based on the assumption that a significant number of project delays are due to environmental reviews. I couldn't disagree more.

Though I would prefer the environmental provisions in the conference report were not included, I believe we have improved them significantly. We have also ensured the public will still be able to participate effectively as part of the NEPA process on water projects that have a profound effect on their health, safety, and well-being.

This report also reauthorizes the State Revolving Fund for the first time since 1987 and includes innovative financing of water infrastructure projects. As part of both programs, I am proud to say that we will for the first time consider an idea that I have championed: the use of innovative, green, and low impact technologies. These types of projects are usually less expensive, require less operations and maintenance, and reduce risk.

I urge my colleagues to support this bipartisan bill that creates jobs, while ensuring that taxpayer dollars are used to support projects that are well-designed and achieve environmental compliance. "

40 Student-Athletes, Cheerleaders and Staff Graduate

COLLEGE PARK, Md. — Forty current and former student-athletes, cheerleaders and staff were among Bowie State University graduates who received degrees during the 2013-14 academic year. Thirty-one of those mentioned were awarded degrees during the 2014 Spring Commencement on Monday, May 19th at the University of Maryland's Comcast Center, while the other nine earned degrees during the 2013 Winter Commencement. Dr. Norman Augustine, Board of Regents University System of Maryland, Aerospace Expert and former Chairman and Chief Executive Officer Lockheed Martin Corporation delivered the commencement address to graduates. One of his inspirations to the graduates was "To take advantage of opportunities as they appear and when opportunities knocks try to answer the door." He also shared a piece of advice, "Life is not a spectator sport. It's not a dress rehearsal. The greatest regrets in life are not the opportunities one pursues and fails whether the ones one fails to pursue."

"It was a great experience today to see our student-ath-



Congresswoman
Donna F. Edwards

letes walk across the stage. Each year we reflect on our accomplishments and every year graduation tops the list. We cannot be more proud of those student-athletes that have achieved the ultimate prize of a diploma. I would like to thank those that supported these young men and women on their journey: our coaches, administrators, faculty, staff, and loved ones", said Athletic Director Anton Goff.

Prince George's County Environmental Offices to Move into New Buildings

LARGO, MD — Various offices of the Prince George's County Department of Environmental Resources (DER) have relocated and services resumed on June 4, 2014

O'Malley Appoints Judges in Dorchester, Garret and Howard Counties

ANNAPOLIS, MD — Governor O'Malley announced today the appointments of District Court for Dorchester County, Stephan Martin Moylan to the District Court for Garrett County, and Wayne Alan Brooks to the District Court for Howard County.

"I am honored to appoint these individuals to seats on the District Court of Maryland," said Governor O'Malley. "Each of these attorneys has a strong commitment to public service and exemplifies the highest standards in the legal profession." The newly appointed judges were recommended to Governor O'Malley by local trial court judicial nominating commissions.

For the District Court for Dorchester County, Governor O'Malley has appointed Melvin James Jews. Mr. Jews has maintained a solo practice in Dorchester County since 2001, representing clients in both civil and criminal matters. Previously, he served as the Chief of Litigation for the Housing Authority of Baltimore City, a Senior Solicitor in the Baltimore City Law Department, an Assistant State's Attorney for Baltimore City, and a Staff Attorney for the Legal Aid Bureau. Mr. Jews earned his law degree from the University of Maryland Francis King Carey School of Law and his undergraduate degree from the University of Maryland, College Park.

For the District Court for Garrett County, Governor O'Malley has appointed Stephan Martin Moylan. For the past 12 years, Mr. Moylan has served as an Assistant Public Defender in Garrett County. Previously, he served as an Assistant Public Defender in Baltimore City, working in both the Felony and Misdemeanor Trial Divi-

sions. Mr. Moylan is an active participant in several Garrett County community organizations. He received his law degree from the University of Baltimore School of Law and his undergraduate degree from Loyola College.

For the District Court for Howard County, Governor O'Malley has appointed Judge Wayne Alan Brooks. Judge Brooks is an Administrative Law Judge and Deputy Director of Operations for Maryland's Office of Administrative Hearings, where he has served for the past 19 years. Judge Brooks began his legal career as a Captain in the U.S. Army Judge Advocate General's Corps, serving as both a prosecutor and trial defense counsel. Before his service as an Administrative Law Judge, he worked as an associate in several Howard County law firms and as an Assistant Public Defender in the Mental Health Division. Judge Brooks earned his law degree from the University of Maryland Francis King Carey School of Law and his undergraduate degree from Howard University.

Chesapeake Bay Watershed Eligible for Conservation Partnership Grants

ANNAPOLIS, MD — The Chesapeake Bay Watershed is one of eight regions now eligible for an historic new conservation program authorized in the 2014 Farm Bill.

The new conservation program, called the Regional Conservation Partnership Program (RCPP), was authorized in the 2014 Farm Bill and will benefit areas all across the nation. RCPP streamlines conservation efforts by combining four USDA programs (the Agricultural Water Enhancement Program, Cooperative Conservation Partnership Initiative, the Chesapeake Bay Watershed Initiative, and the Great Lakes Basin Program for Soil Erosion) into one.

"We applaud Maryland's congressional delegation for their leadership in ensuring our treasured Chesapeake Bay was included as one of the eight critical conservation areas," said Maryland Agriculture Secretary Buddy Hance. "This historic conservation program will leverage existing strong partnerships within our watershed to fund innovative projects that address conservation needs and improve water quality."

The RCPP will competitively award funds to conservation projects designed by local public-private partners specifically for their region. Eligible partners include private companies, universities, non-profit organizations, state, local and tribal governments and others joining with agricultural and conservation organizations and producers to invest money, manpower and materials to their proposed initiatives. USDA's \$1.2 billion in funding over the life of the five-year program can leverage an additional \$1.2 billion from partners for a total of \$2.4 billion for conservation. \$400 million in USDA funding is available in the first year. Through RCPP, partners may propose conservation projects to improve soil health, water quality and water use efficiency, wildlife habitat, and other related natural resources on private lands.

COMMUNITY

Practical Money Skills

By Jason Alderman

Financial Advice for New Fathers

Each year when Father's Day rolls around, I'm reminded that I wouldn't trade the experience of raising my two kids for the world. But when I think back to how naïve my wife and I once were about the costs of raising children, I can't help wishing we'd been better prepared.



If you're a new dad, or about to become one, you'd better sit down. According to the U.S. Department of Agriculture, a typical middle-income family can expect to spend over \$241,000 to raise a newborn child until age 18 — and that doesn't even include prenatal care or college costs.

Right now, you're probably more worried about getting enough sleep than funding your retirement. But at some point, you'll need to plot out a financial roadmap to ensure your family's future financial security. As one dad to another, here are a few strategies I've learned that can help:

Start saving ASAP. It's hard to save for the future when your present expenses are so daunting, but it's important to start making regular contributions to several savings vehicles, even if only a few dollars at a time:

- ❑ Establish an emergency fund with enough cash to cover at least six months of living expenses. Start small by having \$25 or \$50 a month deducted from your paycheck and automatically deposited into a separate savings account.
- ❑ Even if retirement is decades away, the sooner you start saving and compounding your interest, the faster your savings will grow. If your employer offers 401(k) matching contributions, contribute at least enough to take full advantage of the match.
- ❑ Once those two accounts are well established, open a 529 Qualified State Tuition Plan to start saving for your children's education.

If funding these accounts seems impossible, look for a few luxuries you could cut from your budget for six months — lattes, eating out, premium cable, etc. After six months, evaluate whether they were actual "needs" or simply "wants" you can live without.

Get insured. If your family depends on your income, you must be prepared for life's unexpected events, whether an accident, illness, unemployment or death. Get adequate coverage for:

- ❑ Health insurance. Everyone needs medical insurance, no matter how young or healthy.
- ❑ Homeowner/renter's insurance. Don't let theft, fire or another catastrophe leave your family without a home or possessions. To reduce premiums, consider choosing a higher deductible.
- ❑ Life insurance. You'll probably want coverage worth at least five to 10 times your annual pay — more, if you want to cover college costs. And don't forget to insure your spouse's life so you'll be protected as well.
- ❑ Disability insurance. Millions of Americans suffer disabilities serious enough to miss work for months or years, yet many forego disability insurance, potentially leaving them without an income after a serious accident or illness. Ask about your employer's sick leave and short-term disability benefits and if long-term disability is offered, consider buying it.
- ❑ Car insurance. Almost every state requires insurance if you own or drive a car, and for good reason: It protects you financially should you cause an accident or be hit by an uninsured driver. Make sure you have sufficient liability coverage to protect your net worth and income — it only takes one serious accident to wipe out your savings.

And finally, spend responsibly. If you buy things you don't really need or can't afford, you'll just end up having to work longer hours to pay for them — time you could have spent watching your kids growing up.

O'Malley Announces Maryland Ranks in the Top 10 Among Bicycle Friendly States

By PRESS OFFICER
Office of the Governor

ANNAPOLIS, MD — Kicking off National Bike Month, Governor Martin O'Malley today announced that Maryland is ranked among the Nation's Top 10 Bicycle Friendly States according to an annual evaluation done by the League of American Bicyclists. Maryland is ranked number 7 in the nation, up from number 11 last year, and number 2 among Mid-Atlantic and North East States. Thanks to the passage of the landmark Transportation Infrastructure Investment Act of 2013, Maryland will dedicate nearly \$210 million over the next six years (FY 2014 — FY 2019) to fund programs that support alternative transportation projects, including building bicycle lanes and trails.

"To build a modern transportation system that supports the needs of all Marylanders, we have to invest in alternative forms of travel like bicycling," said Governor O'Malley. "We are honored that the League of American Bicyclists recognizes Maryland as a leader in making bicycling a true transportation alternative. Beyond the health benefits, expanding cycling and walking opportunities are funda-

mental to our ongoing efforts to foster sustainable land-use, protect the environment, reduce greenhouse gas emissions and better connect our communities."

The Bicycle Friendly States (BFS) ranking is based on a number of key indicators, including infrastructure and funding that provide on-the-ground bicycle facilities; education programs that promote cycling; and passage and enforcement of bicycle-friendly laws that make it safe and comfortable for people of all ages to ride. The BFS program is more than an annual assessment. Throughout the year, League staff worked closely with state officials and advocacy leaders to help Maryland identify and implement the programs, policies and campaigns that will improve conditions for bicyclists.

"Thanks to the Governor's leadership and established partnerships with bicycle advocacy groups, we are investing in an interconnected bicycle network that safely connects people to where they want to go," said Transportation Secretary James T. Smith, Jr. "It's gratifying to be recognized for our ongoing efforts to make Maryland a safe, bicycle-friendly State."

In an effort to reduce traffic crashes and improve bicycle

safety, the Maryland Department of Transportation (MDOT) partnered with the Maryland State Police to complete a police training video as a tool to reinforce traffic laws associated with bicyclists and motorists safely sharing roadways. MDOT also has partnered with local jurisdictions throughout Maryland to help fund Bikeshare programs, including Montgomery County, which launched their program last fall.

"We are encouraged to see Maryland move into the top 10 in the 2014 ranking," said League President, Andy Clarke. "The completion of the state's police training video, The Law Enforcement Role in Bicycle Safety, coupled with significant legislative and funding wins will help make bicycling safer and more comfortable for residents and visitors alike."

To expand cycling opportunities, Governor O'Malley launched the Cycle Maryland initiative in 2011 to promote cycling in Maryland and increase funding to expand bicycling opportunities. Maryland also offers numerous programs that provide grants to local governments and non-profit organizations that support bicycling, including: Safe Routes

to School, Transportation Alternatives, Federal Lands Access Program, Recreational Trails and Bikeways. This year, \$16 million in reimbursable grant funding was made available to local governments and organizations for projects that enhance walking, biking, pedestrian safety, recreational trails and federal lands access. Since announcing Maryland's Bikeways Program in 2011, Governor O'Malley has invested \$8.5 million in Bikeways Program grants to help fund 74 projects across Maryland.

Click here to see how Maryland ranked in the five evaluation categories. Learn more about the BFS program at www.bikeleague.org/content/states.

The Maryland Department of Transportation recently updated the Bicycle and Pedestrian Master Plan, which establishes a 20-year vision to support cycling and walking as modes of transportation in Maryland. Learn more at www.mdot.maryland.gov/Bike-WalkPlan. For more information on Cycle Maryland efforts and great bicycling resources, please visit us on our website at www.cycle.maryland.gov, on Facebook at www.facebook.com/cyclemaryland and follow us on Twitter @CycleMaryland.

Air Quality from A1

"Ozone transported into the State has been measured at levels that already violate health-based standards," O'Malley said in a statement. "The science clearly demonstrates that Maryland cannot fully meet the air quality standards that protect public health unless air pollution generated outside of our State's borders is controlled."

Maryland contributes fine particulate matter and ozone to Pennsylvania and fine particulate matter to Ohio. 10 states — Pennsylvania, Ohio, Michigan, Indiana, Kentucky, Tennessee, North Carolina, Virginia, West Virginia and New York — contribute ozone pollution to Maryland.

Ozone is an important component of the atmosphere, helping to repel sunlight that would otherwise get trapped inside the atmosphere and heat it up. However, when excess ozone builds at ground level, it can exacerbate health issues such as asthma.

3D from A1

by blood vessels and other tubes, non-tubular organs, and, the most complex, solid organs like a liver or heart, said Anthony Atala, director of the institute.

Scientists at the institute have been able to 3D print all four tissue types and implant the first three in tests. They are working to make 3D-printed skin cells available to real patients.

"We're making these always by hand, one at a time, and we wanted to come up with a system that would automate the process," Atala said of the process of 3D printing with human cells.

Organovo is a company also working to design and build functional human tissues such as bone, blood vessels and even organs by 3D imaging with living cells, said spokesman Michael Renard.

The company has been able to build tissues — liver, some kidney, bone, lung tissue, blood vessel tissue, skin and muscle — that could be used as a form of therapy for patients; for instance, living cells could be printed onto a burn wound to help accelerate healing.

Fine particulate matter is a mixture of extremely small particles that can also cause health problems when inhaled.

The American Lung Association ranked Washington, Baltimore and Arlington, Virginia, together as the eighth-worst city for ozone pollution in the U.S. this year.

A Massachusetts Institute of Technology study found that there are 1,885 premature deaths tied to power plant pollution each year in Maryland, the 12th highest rate in the nation.

One way that Maryland has sought to improve air quality is through the renewable energy portfolio standard, which provides state credits to companies using renewable energy sources like wind and solar. James McGarry, chief policy analyst for the Chesapeake Climate Action Network, said that this can reduce emissions of greenhouse gases and other forms of pollution that harm air quality.

Although tissues are being built for experiments, including testing how diseases damage living tissues, Renard said he could not comment on when Organovo would be able to make these constructed tissues available for patients' use.

"The skin is a big one; it's a game changer in the long run in terms of the kind of quality of life people have, how we'll be able to deal with people the loss of skin in a burn and tissue is a huge deal," said Ivan George, director of the James and Sylvia Earl Simulation to Advance Innovation and Learning Center at Anne Arundel Medical Center.

George's staff uses static 3D images to 3D print accurate physical models for planning purposes, he said. MacDonald and his colleague, Dr. Paul King, George said, are able to use this technology to create materials, such as knee replacements, that fit individual patients perfectly.

"I can recraft and retool a patient's specific joint. That's being done today," George said. "Our surgeons do it here and they do it very effectively."

Maryland is also a member of the Regional Greenhouse Gas Initiative, a collaboration between nine states in the Northeast designed to reduce greenhouse gas emissions from power plants on a regional scale.

In order to reduce the damaging effects of emissions, power plants in Maryland have invested about \$2.6 billion in pollution controls, such as scrubbers that remove pollutants from coal-burning plants, and "it worked," said George "Tad" Aburn, director of the Maryland Dept. of the Environment's Air and Radiation Management Administration.

"The controls went in, the emissions went down, and at least the standards they were designed to help us meet, we met those standards," Aburn said. "I've worked here at MDE for 30 years, and this is the first time in my 30-year career that I can say we're in full compliance with the federal health standards for fine particulates."

Dr. Eduardo Rodriguez used 3D models to plan the historic face transplant he led while at the University of Maryland's R. Adams Cowley Shock Trauma Center in 2012, George said.

George said Dr. Adrian Park, chairman and founder of the SAIL center, has successfully tested a scope — a camera on the end of a tube that is inserted into a patient's abdomen during surgery — that is merged with the 3D image of an organ in real time to create a form of X-ray vision.

"What if I could see through the layers, see through the fat and actually know where those key structures are so I go straight to them with the greatest of safety and meticulous dissection," Park said. He added that the University of Strasbourg in France is a leader in this area of augmented reality.

Static 3D modeling is being used regularly for work on joints, like the knee replacements MacDonald conducts.

But that modeling isn't being used regularly for soft tissue such as organs or blood vessels yet, Park said, largely because they

are more complicated because of their dynamic movement.

"The modeling issue for long bone stuff, for hard tissue like bone is going to be the vanguard of 3D printing and implantables," Park said. "When we get to the point — and this will be worked on soon — where instead of having someone on dialysis or transplant a kidney — boy, what if we could actually print and grow a kidney and put that in instead."

Despite successful applications of 3D imaging technology, such as Egnor's knee replacements and Rodriguez's face transplant, regular applications of 3D printing technology are not yet ready to be applied to patients.

Available technology also isn't yet at a point at which it's possible to 3D print knee replacements out of bone or metal, but 3D imaging has already begun to have real impacts on patients such as Egnor.

"I actually feel better now than I did before surgery; I really do and I didn't think I would, I really didn't," Egnor said. "I feel like a million bucks right now."

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COMMENTARY

Barbara A. Mikulski
United States Senator for Maryland



Senators Milkulski and Collins Applaud Decision to Place Boko Haram on International Terrorist List

Washington, D.C. — Senators Barbara Mikulski (D-Md.) and Susan Collins (R-Maine) applauded the United Nations Security Council's decision to add the Nigerian terrorist groups, Boko Haram and Ansaru, to the al-Qa'ida Sanctions List. Senators Mikulski and Collins recently led a bipartisan letter, signed by all twenty women Senators, to President Obama requesting that the Administration redouble efforts to secure Boko Haram and Ansaru's addition to the List. The letter followed Boko Haram's taking responsibility for the kidnapping of nearly 300 school girls in Nigeria.

Including Boko Haram to the List would require all 193 U.N. Member States to apply three sanctions measures to the group, including a complete asset freeze, travel ban, and arms embargo. While the United States, Nigeria, and other countries have already imposed sanctions upon them, this action both brings greater international attention to the group and will compel others to take similar action.

"The decision of the United Nations Security Council to proceed with including Boko Haram

to this List will further constrain the group and their ability to terrorize the people of northern Nigeria," said Senators Mikulski and Collins. "While this effort does not bring home the girls who have been kidnapped, it can hopefully help to prevent such reprehensible attacks in the future by limiting the group's resources, and we will continue to strongly support efforts to secure their safe rescue"

In addition, Senators Mikulski and Collins commended the Administration's decision to deploy 80 U.S. troops to Chad to assist the efforts of the Nigerian government.

Last week, Secretary of State John Kerry hosted the women Senators for dinner to discuss women's and children's issues, at which the mass abduction in Nigeria and possible U.S. policy options were point of focus. Senators Mikulski and Collins also led the Senate women in receiving a comprehensive briefing on the topic last Wednesday with senior officials from the Office of the Director of National Intelligence, the Department of Defense, the Department of State, the Federal Bureau of Investigation and USAID.

Clara Barton National Historic Site



Open to the Public

CLARA BARTON NATIONAL HISTORIC SITE

The Clara Barton National Historic Site, was established in 1974 to interpret the life of Clara Barton (1821-1912), an American pioneer teacher, nurse, and humanitarian who was the founder of the American Red Cross. The first national historic site dedicated to the accomplishments of a woman, it preserves the early history of the American Red Cross and the last home of its founder. Clara Barton spent the last 15 years of her life in her Glen Echo home (1897-1912), and it served as an early headquarters of the American Red Cross as well. The National Park Service has restored eleven rooms, including the Red Cross offices, parlors and Clara Barton's bedroom. Visitors to the site are led through the three levels on a guided tour emphasizing Barton's use of her unusual home. The house is shown by guided tour only. Tours start on the hour: 10:00 a.m., 11:00 a.m., 12 Noon, 1:00 p.m., 2:00 p.m., 3:00 p.m., and 4:00 p.m. Admission is free. Please call 301-320-1410 for more information or to schedule a reservation.

Child Watch

by Marion Wright Edelman



Dr. Vincent Harding's Call to Make America America

When my brother friend Dr. Vincent Harding passed away May 19 at age 82, we lost a beloved historian, theologian, social justice activist, and visionary who never lost sight of the "beloved community" his friend and colleague Dr. Martin Luther King, Jr. believed our nation and world could become.

During the Civil Rights Movement Vincent Harding was a close confidant of Dr. King. He helped draft several of Dr. King's speeches, including the landmark 1967 antiwar sermon "Beyond Vietnam" and later served as the first director of the Martin Luther King, Jr. Memorial Center in Atlanta. His books include the powerful essay collection *Martin Luther King: The Inconvenient Hero*, where he reminded us that too many enshrine Dr. King the dreamer and ignore Dr. King the "disturber of all unjust peace." Vincent Harding taught at Pendle Hill Study Center, the University of Pennsylvania, Spelman College, and Temple University and spent more than three decades at the Iliff School of Theology in Denver, Colorado, where he founded and chaired the Veterans of Hope Project. The project's mission is to encourage a healing, intergenerational approach to social justice activism that recognizes the interconnectedness of spirit, creativity, and citizenship—a mission he passionately embraced.

In July 2012 on his 81st birthday Dr. Harding spoke at the National and Racial Healing Town Hall at a Children's Defense Fund's conference. He told us he believed America was a wounded nation, but despite so many years of struggle he remained convinced America could and must get better. He urged all of us to commit ourselves to healing America and making our country what it should be. We can honor him by repeating his important message and trying to make it reality.

He shared a line he heard a West African poet recite: "He made this fantastic statement that I want to pass on to you as a birthday gift. He said, 'I am a citizen of a country that does not yet exist.'" The poet was

speaking about his homeland, which was going through political turmoil on the road to independence. But my dear brother Vincent said it applied to our current national spiritual and moral crisis in America: "We are citizens of a country that we still have to create—a just country, a compassionate country, a forgiving country, a multiracial, multi-religious country, a joyful country that cares about its children and about its elders, that cares about itself and about the world, that cares about what the earth needs as well as what individual people need."

"I am, you are, a citizen of a country that does not yet exist," he continued, "and that badly needs to exist. And I want to offer you the opportunity to celebrate my birthday with me by pledging deep in you that you are not going to give up this life without offering yourself totally to the creation of this country that does not yet exist."

He drew a comparison to the words of the brilliant African American poet Langston Hughes in "Let America Be America Again." That poem celebrates the poor, working class, and immigrant Americans from all backgrounds and colors who

have always been the farmers, factory workers, and laborers on whose backs America was built, but who generation after generation have been "tangled in that ancient endless chain/Of profit, power, gain, of grab the land!/Of grab the gold!/Of grab the ways of satisfying need!/Of work the men! Of take the pay!/Of owning everything for one's own greed!"

Vincent Harding borrowed Hughes's refrain—"America never was America to me." He said: "We can always stop there and complain and complain and complain. 'You've never been America to me.' But remember, Langston did not stop there. 'America, you've never been America to me. But I swear this oath—you will be!' I want you, those who are not afraid to swear oaths, to swear that oath for yourself, for your children, and for your old uncle here. You will be, America. You will be what you could be. You will be what you should be, and I am going to give my life to the working for that." My beloved brother Vincent remained true to that promise.

See WATCH, Page A6

Marc Morial, President and CEO
National Urban League



Don't Mess with Magic: A Man Too Busy to Hate

"My whole life is dedicated to urban America."
 — NBA Hall of Famer Earvin "Magic" Johnson

Every time ostracized Los Angeles Clippers owner Donald Sterling opens his mouth, he reveals how deeply out of touch and stuck in the past he is when it comes to the issue of race. He also appears to have especially mean-spirited and distorted views about a man who has been both a champion in the NBA and a champion for urban America — Magic Johnson.

Last week, in an interview with CNN's Anderson Cooper, Sterling said that Johnson, who was diagnosed with HIV in 1991, was not a good role model for kids, "should be ashamed of himself" and "should go into the background." Ignoring the extraordinary contributions Johnson has made to HIV/AIDS awareness and education and urban economic development, Sterling went on to say, "What does he do for the Black people? He doesn't do anything." These comments could not be more wrong. Johnson himself could only respond by saying "I'm going to pray for this ... man" and that Sterling was "living in the stone ages." Magic Johnson needs no defense. His extraordinary record of giving back to the Black community is well known to almost everyone, including Donald Sterling — even if he cannot bring himself to recognize it. But, lest Sterling's words have cast any doubt, we want to take this opportunity to set the record straight.

Since 1991, Magic Johnson has become one of the most successful business leaders and most generous philanthropists in America. For the past 23 years, the Magic Johnson Foundation has worked to develop programs and support community-based organizations that address the educational, health and social needs of ethnically diverse, urban communities. Through the Foundation, Johnson has provided HIV/AIDS prevention, testing, and treatment opportunities to countless numbers of people. The Foundation's

Taylor Michaels Scholarship program has awarded millions of dollars to help deserving minority students go to college, and Johnson's network of Community Empowerment Centers is helping to close the digital divide in urban communities through the innovative use of technology.

Johnson has also inarguably become one of the most powerful African American businessmen in the country. In the 1990s, after being repeatedly turned down for bank loans, he believed in the promise of urban America so much that he put up his own money to bring businesses where few others wanted to invest. He started Magic Johnson Enterprises, which has become a billion dollar empire largely devoted to "fostering community/economic empowerment by making available high-quality entertainment, products and services that answer the demands of ethnically diverse urban communities." His investments have included AMC movie theaters, Starbucks franchises, restaurants, fitness centers, sports teams (Los Angeles Lakers and Los Angeles Dodgers) and the Aspire cable TV network -- all of which are bringing jobs and services to urban communities long underserved by major corporations.

Magic Johnson has also been a great friend to the Urban League movement. He has supported our annual Equal Opportunity Awards Dinner and has served as national spokesperson for "Know Your Money," the National Urban League's highly acclaimed curriculum-based financial literacy program targeted to African American communities. We also awarded him with our Legends Award during our 2010 Centennial celebration in recognition of his accomplishments in urban communities across the nation. In 2012, the Urban League of Greater Atlanta also honored him as the "Business Champion of the Year." Like Atlanta, which has been called "the city too busy to hate," Magic Johnson, one of the foremost business and charitable leaders in urban America, is clearly a man too busy to hate.

Donald Sterling should follow his lead.

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BUSINESS

The American Counseling Association's Counseling Corner

Tips For Helping Your Teenager Date Responsibly

Summer is coming and with it increased opportunities for teen dating and parental worrying. While we all realize that it's natural for teenagers to be attracted to one another, and that dating is the socially-accepted outcome of such attraction, most parents agonize over the whole dating experience and all the things that can go wrong.

While there's no magic way to make such parental worries disappear, there are steps you can take to make teen dating a better experience for you and your child.

- Start by talking to your child early about dating. The junior high years, or even earlier, are not too soon to broach the subject, even though actual dating may be a few years off.

- Develop, with your child, basic rules and expectations regarding dating. Talk about the appropriate age for couple or group dates. Discuss curfews and your expectations regarding driving, behavior and appropriate destinations. As the parent, you should take the lead, but include your child in the discussion and get his or her agreement that what you're proposing makes sense for both of you.

- Have honest discussions about sex and morality. Share your own moral views and talk about AIDS, sexually transmitted diseases, pregnancy and the emotional issues related to sex. If you find such discussions difficult, try enlisting a professional counselor, physician or member of the clergy.

- Prepare for emergencies, because they will happen. Is that cell phone charged? Enough money to take a cab home in case of an emergency? A backup person to call if you or your spouse aren't available? Talk about handling problem situations like an auto accident, a drunk or abusive date, or other potential dating disasters.

- Let your teen know you'll be there for him or her. You don't want a teen in trouble too scared to call you. Your child should know that when there's a problem, you're ready to come to the rescue, wherever and whenever, with no questions asked.

- Pay attention. Most teens won't share dating details, but will give clues when things aren't right. Look and listen for problems, from drinking to drugs to inappropriate relationships. Don't be paranoid, but respect your intuition. Ask questions and act swiftly when you sense something is wrong.

- Yes, teen dating is a challenge for any teen, but the truth is that it's probably harder on the parents.

"Counseling Corner" is provided by the American Counseling Association. Comments and questions to ACACorner@counseling.org or visit the ACA website at www.counseling.org

Maryland Casinos Generate \$66.49 Million in Revenue During June

State's casino revenue exceeds Board of Revenue Estimates by \$76.84 million in Fiscal Year 2013

The Maryland Lottery and Gaming Control Agency today announced June 2013 revenue numbers for the state's four casinos — Hollywood Casino Perryville in Cecil County, Casino at Ocean Downs in Worcester County, Maryland Live Casino in Anne Arundel County, and Rocky Gap Casino Resort in Allegany County. June 2013's combined statewide revenue totaled \$66,497,305.

Hollywood Casino Perryville generated \$7,784,814 from both slot machines and table games in June. Gross gaming revenue per unit per day was: \$185.75 for slot machines, \$2,788.31 for banking table games and \$1,367.60 for non-banking table games. Hollywood Casino's June 2013 revenue decreased by \$173,060 or 2.17% from May 2012. Hollywood Casino Perryville operates 1,158 slot machines and 22 (12 banking and 10* non-banking) table games. The facility debuted its table games on March 6, 2013.

The Casino at Ocean Downs generated \$4,810,673 in June, and its gross gaming revenue per unit per day was \$200.44. Casino at Ocean Downs' June 2013 revenue increased by \$415,022 or 9.4% from June 2012. The Casino at Ocean Downs operates 800 slot machines.

Maryland Live Casino generated \$51,415,759 from both slot machines and table games in June. Gross gaming revenue per unit per day was: \$276.34 for slot machines and \$4,276.44 for banking table games. Maryland Live Casino operates 4,314 slot machines and 122 banking table games. Maryland Live's June 2013 revenue increased by \$22,934,281 or 80.5% from June 2012. The facility debuted its table games on April 11, 2013.

Rocky Gap Casino Resort generated \$2,486,060 from both slot machines and table games in June. Gross gaming revenue per unit per day was: \$128.59 for slot machines and \$1,111.67 for banking table games. Rocky Gap Casino Resort operates 558 slot machines and 10 banking table games. The casino opened to the public on May 22, 2013.

In a year-to-year comparison — excluding Rocky Gap Casino Resort, which opened in May 2013 — June 2013 casino revenue increased from June 2012 by \$23,176,243 or 56.76%. June's figures brought total FY2013 gross casino revenues to \$608,348,515**, exceeding the Board of Revenue Estimates' total FY2013 casino revenue budget by \$76.84 million. Fiscal Year 2013 ended on June 30.

O'Malley, Presiding Officers Sign Legislation to Improve Air Quality, Save Consumers Money and Support Local green Jobs

By PRESS OFFICER
Office of the Governor

Legislation Will Provide Incentives to Expand the Purchase of Electric Vehicles and Recharging Stations

Bill Passage Advances Governor's Goal to Reduce Greenhouse Gas Emissions

ANNAPOLIS, MD — Providing financial incentives to expand the purchase of plug-in electric vehicles and recharging stations as a means to improve air quality, save consumers money and support local green jobs, Governor Martin O'Malley, Senate President Thomas V. Mike Miller, Jr., and House Speaker Pro Tem Adrienne Jones on Monday signed the Electric Vehicles and Recharging Equipment-Rebates and Tax Credits bill (HB 1345 / SB 908). The legislation extends a tax credit on the purchase of plug-in electric vehicles for three years, increases the value of the tax credit provided to most vehicles and enhances the incentive on the purchase and installation of electric vehicle recharging station equipment.

"I applaud my colleagues in the General Assembly for working closely with us to pass this bill that will improve air quality, save hard-working Maryland consumers money and support green jobs here in Maryland," said Governor Martin O'Malley. "A key component of our strategic efforts to reduce Maryland's greenhouse gas emissions by 25 percent by 2020 is to make owning an electric vehicle more convenient and economical, which this legislation accomplishes."

"Making it easier to own and operate an electric vehicle is an

important part of building a healthy and sustainable environment for Maryland," said Lt. Governor Anthony Brown. "When we work together with advocates, businesses, and legislative leaders, we can protect our environment while also creating jobs for Maryland's workers."

The legislation will allow the State to continue to offer a tax credit on the purchase of plug-in electric vehicles through June 2017 and, in most cases, increases the value of the tax credit by changing the calculation based on a vehicle's battery size. Once the legislation takes effect July 1, 2014, the incentive, up to a maximum of \$3,000, will be based on \$125 times the number of kilowatt-hours battery capacity. For example, under the current available tax credit that is set to expire this June, Marylanders who purchase a Chevrolet Volt are eligible to receive a \$1,000 tax credit. After July 1, the tax credit doubles to approximately \$2,000 for Marylanders who purchase the Volt. Maryland has committed \$1.8 million per fiscal year through June 30, 2017, for this tax credit.

"General Motors applauds Governor O'Malley's leadership to provide incentives that help advance environmentally friendly technologies gain a foothold among consumers. GM and, in particular, our employees at our Baltimore Operations Plant believe that doing right for the environment is good for both business and jobs," said Michael Robinson, General Motors' Vice President, Sustainability and Global Regulatory Affairs. GM employees at their Baltimore plant make the electric drive mo-

tor and drive unit for the Spark EV plug-in electric vehicle, which is currently sold in Oregon and California.

The legislation also repeals the existing electric vehicle recharging income tax credit and replaces it with an enhanced rebate program that has been expanded to include local and State government. The rebate program, which will be administered by the Maryland Energy Administration and also goes into effect on July 1, 2014, will offer more money to individuals, businesses and local and State government for the purchase and installation of recharging stations for plug-in electric vehicles. Maryland has committed \$600,000 per fiscal year through June 30, 2017, for this rebate program. The cost-saving breakdown for the rebate program includes the following:

- Residential customers: up to 50 percent of costs not to exceed \$900;
- Commercial entities: up to 50 percent of costs not to exceed \$5,000;
- Local and State Government: up to 50 percent of costs not to exceed \$5,000; and
- Retail Service Stations: up to 50 percent of costs not to exceed \$7,500.

"Maryland continues as a national leader in harnessing the innovation that will move us into the new economy," said Abigail Ross Hopper, Director of the Maryland Energy Administration. "Thanks to Governor O'Malley and the Maryland legislature, we continue to make vital investments in advancing electric transportation and infrastructure, which promotes energy independ-

ence, reduces greenhouse gas emissions, and saves consumers' money."

The incentives, which are subject to available funding, were strongly supported by Maryland's Electric Vehicle Infrastructure Council (EVIC). The EVIC is made up of automobile manufacturers, dealers, charging station equipment manufacturers, utility companies, electrical workers, State and local government and environmental and energy experts.

"The EVIC strongly supported the passage of this legislation to provide the incentives and infrastructure necessary to promote more widespread use of electric vehicles," said Deputy Transportation Secretary and EVIC Chair Wilson H. Parran. "We commend the leadership of Governor O'Malley and members of the General Assembly for their ongoing efforts to fight for cleaner air, greener jobs and more cash in the pockets of consumers."

There are great economic advantages to electric vehicles. Electricity is the most widely available source of power and typically costs about two-thirds less than gasoline on a per-mile basis. By 2025, the average zero-emission vehicle driver will save nearly \$6,000 in fueling costs over the life of the car.

"Today's bill signing is another step forward in our efforts to expand electric vehicle ownership in Maryland," Maryland Department of the Environment Deputy Secretary Kathy Kinsey said. "Providing financial incentives for the purchase of electric vehicles and charging stations is among the most effective measures we can take to expand market penetration."

Oysters from A1

we started in Harris Creek," said Mike Naylor, who oversees the Maryland Department of Natural Resources Shellfish Program. "When we revisit the areas that we've planted, they are absolutely thriving."

The work is largely being carried out by the DNR, federal agencies and the nonprofit Oyster Recovery Partnership. But when construction ends, the anxious part of the project begins — waiting to see whether all of those numbers add up to long-term success.

"The real question is, will it sustain itself?" Naylor asked. "We can put them out there, but will they sustain themselves or will they fall back to pre-construction levels at some point in the future?"

"It's going to be a long time before someone raises a flag and says Harris Creek is restored."

Harris Creek represents a new approach to oyster restoration. Whereas most past projects were often only a few acres in size, the new approach seeks to restore — and repopulate — large tracts of oyster habitat within small tributaries. The hope is that the reconstructed reefs will become self-sustaining, gradually expanding oyster numbers and reef habitat.

And, plans are under way to kick off large-scale projects in four more tributaries, with work beginning in most of them this year. They include:

- The Little Choptank River, where the Maryland DNR expects to construct about 30 acres or reef this year as part of a project that will likely cover 200-400 acres in coming years.

- The Tred Avon, a Choptank tributary near Harris Creek, where the Army Corps of Engineers Baltimore District this year expects to construct 25 acres of reef as part of a project expected to ultimately cover about 200 acres.

- The Piankatank River, just south of the Rappahannock, where The Nature Conservancy is partnering with the Virginia Marine Resources Commission, National Oceanic and Atmospheric Administration and Army Corps of Engineers Norfolk District and others to construct 20 acres. It's the first part of a project that may eventually cover several hundred acres in the river.

- The Lafayette River, a tributary of the Elizabeth River in Norfolk, where community and environmental groups supported by the NOAA Chesapeake Bay Office will continue planting small reefs this year. But those groups, and the Corps Norfolk District, are planning a larger project that will likely begin major construction next year that could eventually cover more than 200 acres.

Cumulatively, those projects will eventually total many hundreds of acres — potentially more than a thousand — beyond what is being built in Harris Creek.

Self-sustaining populations

If they are all successful, it would be a big step toward restoring self-sustaining oyster populations in 10 tributaries by 2025, the goal set in the draft Chesapeake Bay Watershed Agreement.

It would also represent a huge investment: The cost of Harris Creek alone will approach \$30 million, and the combined cost of all the other projects is in the tens of millions of dollars.

"When you start measuring the economic and natural benefits, it looks like a good investment, but the up-front costs are expensive," said Andy Lacatell, of The Nature Conservancy, which received a \$500,000 grant from the Mary Morton Parsons Foundation to help launch the Piankatank project.

Lacatell noted that oysters help clear the water, remove algae and build habitat used by fish, clams and other aquatic dwellers. "Assuming you have a successful reef, the investment is a good one."

Past restoration projects were often only a few acres in size. While many showed initial signs of success, those small reefs simply did not provide a large enough area upon which oyster larvae could settle; many larvae were just swept away into areas with muddy bottoms, where they died. The reefs also succumbed over time because of disease, sedimentation, poor water quality, legal harvest and poaching — or a combination of those factors.

The new large-scale strategy seeks to rehabilitate the majority of remaining potential reef habitat in an entire tributary with the hope of reaching a tipping point where oyster populations are not only self-sustaining, but also maintaining and expanding their reefs as well as influencing local water and habitat quality. The guiding strategy, developed by agencies and scientists in recent years, also calls for the reefs to be protected in sanctuaries with the hope that, left alone, the oysters over generations will develop resistance to the diseases that have devastated the Bay's oyster population.

There are signs the strategy

is working. They are coming from Virginia's Lynnhaven River, near the mouth of the Bay.

Though not technically a sanctuary, the Lynnhaven for decades was off-limits to fishing because of high bacteria levels in the water. Over the years, Lynnhaven Now and other local groups began putting reefs in the water, a process that was accelerated in the mid-2000s when the Corps Norfolk District began a \$5 million investment in oyster restoration in the river, building 58 acres of reefs.

That ultimately brought the reef acreage in the Lynnhaven to 63 acres.

Because of the river's small size, that may be enough for it to earn the title of being the Bay's first "restored" tributary under criteria established by scientists two years ago.

Under those criteria, at least 50 percent of the currently restorable bottom has to be returned to oyster habitat. Six years after the project is completed, the reefs need to have a minimum of 15 oysters per square meter, with 50 being the target. The oyster population has to consist of at least two year classes, so the goal can't be met on the basis of a single good spat set. And, the reef area has to be stable or increasing in size.

Those oyster densities are modest compared with historic reefs in the Bay, but they represent the best estimates by scientists of the minimal oyster population needed to be self-sustaining — enough oysters in close proximity to both improve the odds of reproductive success and to

OUT ON THE TOWN

ERIC D. SNIDER'S
IN THE DARK

Movie Review "Blue Ruin"

Blue Ruin
Grade: B+
Rated R, Brief but graphic violence, some profanity
1 hr., 30 min

There isn't much to say on the subject of seeking revenge that isn't covered by the old proverb about digging two graves first, yet we continue to crave movies in which people set out to satisfy the demands of justice by way of vengeance. *Blue Ruin*, a standout representative of this grim genre, is a tightly focused and uncluttered suspense drama about a man on a tragic mission. With no pretenses about reinventing the wheel, writer-director Jeremy Saulnier delivers a simple but gripping piece of somber entertainment.

Our sad hero is Dwight Evans (Macon Blair), a shaggy drifter living out of his car in the Delaware/New Jersey area. The vehicle is a rusty, decrepit 1990 Pontiac Bonneville with what appear to be bullet holes in the body; like Dwight, the car is a wreck that is somehow still functioning, though just barely. Dwight is asleep in the backseat one morning when a local cop (who knows him by name) comes to gently inform him of the situation: "He's going to be released."

The pronoun needs no antecedent. Dwight knows who "he" is: Wade Cleland, the murderer who's been in prison for almost 20 years for destroying Dwight's family. We understand by implication that Dwight was devastated by the killings, suffered a breakdown, and never recovered. He's been off the grid ever since. Even now, his sister, Sam (Amy Hargreaves), doesn't know where he is.

Dwight seems to have already considered what he would do if



BLUE RUIN is a classic American revenge story that recently won the FIPRESCI International Critics Prize at the Cannes Film Festival. The film follows a mysterious outsider whose quiet life is turned upside down when he returns to his childhood home to carry out an act of vengeance. Proving himself an amateur assassin, he winds up in a brutal fight to protect his estranged family.

Wade Cleland ever got out of prison, and he does it without hesitating. That's not the end of things, though (it's never that simple, is it?), as the other unsavory members of the dirty Cleland family rally around Wade. The situation escalates slowly but un-

stoppably, and Saulnier isn't afraid to let dark humor seep in as Dwight, who isn't accustomed to this sort of thing, tries to stay a step ahead of the Clelands, who are. His disheveled appearance already the comical antithesis of the typical reluctant action hero, Dwight is even more absurd when he's covered in blood or nursing an injury, or when he's missing a close-range shot because he's never fired a gun before. It's only natural for us to laugh bitterly at

the futility of it all, even as we admire his resilience and cheer his gradual demonstration of MacGyver-like resourcefulness.

Macon Blair, who appeared in Saulnier's short films and prior feature, *Murder Party*, gives a riveting and forlorn central performance here. He plays Dwight as sad and ruined but not pitiful or pathetic, a man at the end of his rope who doggedly persists in doing what he feels must be done. Amy Hargreaves (from TV's *Homeland*) is quietly effective as Dwight's sister; Devin Ratray proves useful as an old high school buddy of Dwight's who's familiar with firearms; and Kevin Kolack has a nice sinister turn as one of the sleazy Clelands.

Saulnier tells his story with elegant sparseness. Though events of the past play an important role, the film is set entirely in the present. There are no flashbacks, or even detailed conversations about it. The characters involved all know what happened. What is there to talk about? ("I'm not used to talking this much" Dwight says to Sam when they do finally reconnect.) This refreshing lack of extraneous dialogue makes what IS said all the more significant, and it gets right to the heart of the matter: everyone believes that their own actions are justified. Villains don't consider themselves villains. That's why revenge stories, if they're realistic, are always so tragic. Even when you win, you lose.

Agenda from A1

ing the minimum wage in the state, but expressed strong opposition to the decision by the House of Delegates to freeze the tipped minimum wage, in a recent op-ed in the *Baltimore Sun*.

In Maryland, tipped employees are paid \$3.63 an hour in base pay, higher than the federal rate of \$2.13 an hour. Tipped wages apply to employees like waitresses, waiters, bartenders and other service employees who earn more than \$30 dollars in tips a month.

"Tipped workers are already vulnerable, as servers are three times as likely as other workers to live in poverty," Edwards wrote in the op-ed.

Edwards maintains that raising the minimum wage, including tipped wages, will improve economic prospects for women and families and be good for the country. "It would mean that they are not going to rely on food stamps and heating assistance and all kinds of support that minimum wage earners need because they work below the poverty line," Edwards said.

The Center for American Progress ranks Maryland as the top state in the nation for the economic security of women, but Edwards doesn't think enough progress has been made.

"I always love it when people point to Maryland as a leader in terms of economic prospects for women. I think that is really great, but when you are a leader among 50 states where women are doing horribly, it doesn't say much," Edwards said.

She said women in Maryland still have a long way to go.

She points to the fact that even in the best scenario, Maryland women are on average making 15 percent less than their male counterparts and that the cost of even average child care in the state is about \$12,936 a year.

"Something so simple as providing quality childcare is a barrier to women being able to succeed in the workplace," Edwards said.

Edwards would also like to see more women elected to office. She said women need to know that anyone can run for political office and that holding an elective office is not a requirement to run for elective office.

"I am the first African-American woman to represent Maryland in Congress. It is actually kind of shocking to be able to say that kind of first in 2014," Edwards said.

In her leadership role she feels a great responsibility to train and grow other women leaders.

"I want to demonstrate to our young girls that it is a possibility for them to lead in the political arena. It makes me kind of sad where Maryland fits on the scale right now. We have such tremendous women in our state who are incredibly smart and talented, but they have not moved through the ranks in Congress and other elective office," Edwards said.

Before running for Congress, Edwards worked in the non-profit sector as a public interest advocate and in the private sector on NASA's Spacelab project. In 1994, as co-founder and executive director of the National Network to End Domestic Violence, Edwards worked to help pass the Violence Against Women Act that President Bill Clinton signed into law. She was also very active in development projects at the local level in Fort Washington.

She said she didn't come to her 2006 decision to run against Democratic incumbent Albert Wynn lightly.

"I was very disappointed in the member of Congress who represented our district. I went around asking other people if they wanted to run," Edwards said.

When she didn't find anyone willing to challenge the incumbent, who many perceived as unbeatable, she decided to do it herself.

"I jumped in my car, drove to Annapolis, filled out a couple pieces of paper, wrote a check for \$100 and became a candidate for Congress," Edwards said, laughing.

She ended up losing that election by a narrow margin, but two years later she beat Wynn by 22 percentage points in the Democratic primary. She later went on to win the 4th District, defeating Republican Peter James.

"Mostly people want to get up in the morning and take care of themselves and their children in a comfortable way, not an extraordinary way. That frames how I think about being in Congress," Edwards said.

Watch from A4

He had a special message for people of color as we work to make America what it should be for us and every American: he said it is critical that people of color remember "that we are no longer a minority." "Can we retire that word, as a matter of fact, and recognize that if the Census Bureau in our eyes is correct, that there is a new majority coming into being as we speak? And

it's us, and that means we have great responsibility. We can't just be a complaining minority anymore. We must now say, as the new developing majority, what it is that we believe this country should be about, and then set to building it."

Those of us who share Vincent Harding's vision for that just, compassionate, multiracial, joyful nation that cares for children and elders, itself and the rest of the world, the earth's needs

along with individual needs—can honor his legacy and lifetime of struggle and service by working to make that America reality. We are citizens of a country that does not yet exist, but it is up to us to finally create and make it a just and hopeful land for all.

See more at: <http://www.childrensdefense.org/newsroom/child-watch-columns/child-watch-documents/dr-vincent-hardings-call.html#sthash.ElAgd1vk.dpuf>

Marian Wright Edelman is President of the Children's Defense Fund whose Leave No Child Behind® mission is to ensure every child a Healthy Start, a Head Start, a Fair Start, a Safe Start and a Moral Start in life and successful passage to adulthood with the help of caring families and communities. For more information go to www.childrensdefense.org.

Mrs. Edelman's Child Watch Column also appears each week on The Huffington Post

The Edge of Sports

by DAVE ZIRIN

Michael Sam Gets Drafted, and the NFL Has Issues



The best Twitter joke this year was W. Kamau Bell trying to start the hashtag #letsHaveAnUnancedDiscussion. Having a nuanced discussion, one tweet at a time, is only slightly easier than being that damn camel trying to make it through the eye of a needle. Today, as the last rounds of the NFL draft played out on multiple television channels and the names of players scrolled across the screen, nuance was the last thing many of us wanted to exercise. Michael Sam, the Southeastern Conference Defensive Player of the Year who told the world he was gay last February, was going undrafted, eventually picked 249th in the seventh and last round by the St. Louis Rams. This in and of itself was history, and not only because Sam was drafted. No SEC DPOY had ever gone that long before being selected. In fact, no SEC DPOY in the last ten years had even lasted past the second round.

The reasons for this are on one level complicated. Michael Sam had a terrible NFL combine. He is a "tweener" neither big enough to play defensive line nor quick enough to be an every-down linebacker. He projected even before he "came out" as a mid-round pick. All of that being said, Michael Sam fell down draftboards, costing him hundreds of thousands of dollars, because of the slow steady drip of groupthink that became a flood and took over the process. NFL "draft experts" prepared the public to not expect any history this weekend, emphasizing that his sexuality had nothing to do with it.

But if Michael Sam's sexuality's being an inhibitor to his draft status is not your starting point for understanding all of this, I believe you're lost without a compass. This is not to argue that all general managers in the NFL are homophobic. It's not about what kinds of prejudice lurks in the hearts of individual executives. It's about a systemic problem in an NFL that loathes independent thinkers, fears political controversy, and hates "distractions."

The NFL's homophobia is in an institution that equates being gay with being "controversial", or "political", not realizing that this is their problem, not Michael Sam's. This is the league imbibing and regurgitating the same backward logic that keeps people in the closet, scared to tell their family and friends who they are and doing horrible damage to themselves and the people close to them. This is why we can talk until the cows come home about whether Michael Sam is a "tweener" as a player, his poor combine and all the rest of it but it doesn't get at the root of the issue. This is why we can praise NFL Commissioner Roger Goodell—yes, Roger Goodell—for being out front in supporting and welcoming to Sam when he came out, but we also need to understand what happened and why this groupthink about Sam took root.

As sportswriter Howard Bryant said, Michael Sam is threatening to the institutional biases that exist in the league precisely because he was brave enough to try and control his own narrative. For a league built on idealized notions of machismo and toughness, for a league that speaks in military jargon like they would've been the first one to storm the beaches of Normandy if given half the chance, they were a profile in cowardice this weekend. They were scared. It's the same fear that you see when Goodell announces that they want to police and punish players for saying n____, but are scared to do anything but continue to promote a racial slur as the name of one of its teams. It's the same fear you see when they aggressively promote tackle football for kids—with ads particularly aimed at moms—during the Super Bowl while their own data comes in at a taxi-cab meter pace about how playing tackle can cause permanent brain injury in children. It's the same fear you see when they suspend one of their best players for smoking weed. What NFL bosses want, need and crave above all else, is control. Michael Sam represented a loss of that control because he dared—I will say it again—to try and control his own narrative. That is the NFL's problem, not Michael Sam's. It also has nothing to do with his forty-time at the combine. And that, in my view, is the starting point for understanding why Michael Sam lasted until pick number 249. All praise to Jeff Fisher and the Rams for stepping up to the NFL's risk-averse culture and not letting this young man suffer the ritual humiliation of going undrafted under the brightest possible spotlight. All praise to Michael Sam for his bravery and self-assurance to deliver the kiss heard 'round the sportsworld. All praise for Sam's righteous anger at having slipped down draftboards, tweeting out, "Michael Sam is pissed off for greatness!" But the NFL has issues, and they were on full-display on Saturday.

Calendar of Events

June 12 — June 18, 2014

Public Hearing - Chesapeake Bay Critical Area Mapping Update

Event date: Thursday, June 12, 2014, at 10:00 AM
Topic: Chesapeake Bay Critical Area Update
The Planning Board will hold a public hearing on the proposed Chesapeake Bay Critical Area Sectional Map Amendment.
Date/Time: Thursday, June 12 at 10:00 a.m.
Location: 1st Floor Hearing Room, County Administration Building (CAB), 14741 Governor Oden Bowie Drive, Upper Marlboro, MD 20772
Contact: General questions regarding the mapping process in Prince George's County should be directed to the M-NCPPC Planning Department's Planning Information Services at 301-952-3208. <http://www.pgplanning.org/Projects/CBCAUpdate2014.htm>

Reenactor Yard Sale

Date and Time: Saturday, June 14, 2014 9 am-1 pm
Description: Come to Darnall's Chance House Museum's reenactor yard sale! Clothing or items related to a number of reenacted periods will be for sale. Those who wish to reserve a vendor's table must call ahead.
Cost: Please call for details
Ages: All ages welcome
Location: Darnall's Chance House Museum
14800 Governor Oden Bowie Drive, Upper Marlboro
Contact: 301-952-8010; TTY 301-699-2544

Xtreme Teens: End of School Celebration

Date and Time: Friday, June 13, 2014 7-8:30 pm
Description: You know what time it is? Time for summer break! School's out, so join us to celebrate and to usher the fun summer months ahead! This party will have food and refreshments, music and games.
Cost: Free with M-NCPPC Youth ID
Ages: 10-17
Location: College Park Community Center
5051 Pierce Avenue, College Park 20740
Contact: 301-441-2647; TTY: 301-445-4512

Xtreme Teens: Father's Day Craft

Date and Time: Friday, June 13, 2014 7-10 pm
Description: Show your father you appreciate him! Make a Father's Day craft, write a poem, or create a special card.
Cost: Free with M-NCPPC Youth ID
Ages: 10-17
Location: Prince George's Plaza Community Center
6600 Adelphi Road, Hyattsville 20782
Contact: 301-864-1611; TTY 301-445-4512

Movies for Seniors at the Heights

Date and Time: Friday, June 13, 2014 11 am - 1 pm
Description: Come enjoy popcorn and socialize while watching the Oscar-award winning film "12 Years a Slave." A dramatic film adaptation of the 1853 memoir of the same name by Solomon Northup, a New York State negro who was born free, but then kidnapped in Washington, DC in 1841 and sold into slavery.
Cost: 55 & up
Ages: Residents: Free; Non-Resident: \$3
Location: Marlow Heights Community Center
2800 St. Clair Drive, Marlow Heights 20748
Contact: 301-423-0505; TTY 301-203-6030

Reenactor Yard Sale

Date and Time: Saturday, June 14, 2014 9 am-1 pm
Description: Come to Darnall's Chance House Museum's reenactor yard sale! Clothing or items related to a number of reenacted periods will be for sale. Those who wish to reserve a vendor's table must call ahead.
Cost: Please call for details
Ages: All ages welcome
Location: Darnall's Chance House Museum
14800 Governor Oden Bowie Drive, Upper Marlboro
Contact: 301-952-8010; TTY 301-699-2544

Father's Day Celebration: "Pamper Your Pop"

Date and Time: Saturday, June 14, 2014 1-3 pm
Description: Join us as we celebrate fathers with an afternoon of pampering! Dads will be served catered lunches, complimentary haircut and/or shave, manicure, body wrap, and chair massage, while relaxing to the sounds of smooth jazz and/or playing some of your favorite sports trivia games. Advance registration is required; the deadline is Wednesday, June 11, 2014.
Cost: Resident \$10; Non-Resident \$12
Ages: All ages welcome
Location: Prince George's Sports & Learning Complex
8001 Sheriff Road, Landover, MD 20785
Contact: 301-583-2582; TTY 301-583-2483

Meet Caroline Abbott!

Location: Riversdale House Museum
Date and Time: Sunday, June 15, 2014 1:30 pm
Description: Bring your doll to meet Kathleen Ernst, author of American Girl's "Caroline" series! Step back into 1812 and enjoy a program with Ms. Ernst, have refreshments and introduce your dolls to new friends at Riversdale. Registration required by June 2.
Cost: Resident \$18; Non-Resident \$22
Ages: 6 & up
Location: Riversdale House Museum
4811 Riverdale Road, Riverdale Park 20737
Contact: 301-864-0420; TTY 301-699-2544

Father's Day Tours

Location: Riversdale House Museum
Date and Time: Sunday, June 15, 2014 12:15 pm
Description: Make this Father's Day memorable! Bring your father, grandfather or other special gentleman for a free guided tour of Riversdale House during open hours. Limited to one free tour per paid admission.
Cost: \$3 for adults; \$2 for seniors; \$1 for students; Free for children 4 & under
Ages: All ages welcome
Location: Riversdale House Museum
4811 Riverdale Road, Riverdale Park 20737
Contact: 301-864-0420; TTY 301-699-2544

EARTH TALK ... Driverless Cars

Dear EarthTalk:

What are the environmental implications of the so-called "driverless car" that Google and others are working on right now?

— April Jackman,
Barre, MA

Just a decade ago most of us wouldn't have dreamed we'd live to see driverless cars whisking people around, but things are changing fast and analysts now think they will be common by 2020 and account for the majority of cars on the road by 2040. And with Google's recent unveiling of its latest prototype—complete with no pedals or steering wheel—the future is indeed closer than we ever imagined.

Proponents argue that driverless cars—also called "autonomous cars"—are inherently more sustainable than their manned counterparts. For one, they say, once they are widely available many of us will forego owning our own cars in favor of car-sharing, whereby the autonomous vehicle comes to you, charged and ready to go, as needed. Thus the result could be far fewer cars on the road than today. According to Steve Gutmann of the Seattle-based sustainability think tank Sightline Institute, such a car-sharing scenario would also obviate the need for many parking spaces. Today the typical private car spends upwards of 90 percent of its time parked. Once we have more driverless cars, we'll need far fewer parking spaces, leading to less land being

paved and reducing storm water runoff and heat island effects accordingly.

The networked brains of these vehicles will also reduce inefficient routes and decrease overall driving time, leading to better air quality and lower carbon emissions. Also, the increased safety of driverless vehicles—they obey speed limits, can sense people, bikes and other cars coming toward them, and accelerate and brake much more gradually than human drivers—will mean that the cars can be lighter and require far fewer resources in manufacturing, reducing their overall environmental impact even further.

On the flip side, the advent of driverless cars means that many of us now not able to drive because of age or physical handicaps will be able to use these cars to get around, potentially leading to an increase in the number of cars on the road. And Chandra Bhat of the Center for Transportation Research at the University of Texas points out that just because a car is driverless doesn't mean we'll want it to be smaller, lighter and more fuel efficient. He fears that driverless cars will engender a return to larger vehicles because people will want "more comfortable space" when they are free to stretch out, relax, read, videochat, text or even nap during their trips. He adds that driverless cars could lead to more urban sprawl as car commuting becomes more tolerable without the hassle of actually driving.

Bhat also wonders what will become of the public transit systems we've invested so heavily in if driverless cars offer



CREDIT: STEVE JURVETSON

Driverless -- or "autonomous" -- cars may be commonplace by 2020, some analysts say, and are touted by proponents as more sustainable than their driven counterparts. But convenience factors could tip the scales the other way and mean more and larger vehicles on the road. Pictured: Google's prototype driverless car, a converted Prius, undergoing testing.

the same advantages—using the time en route to do whatever one pleases—with the added benefit of privacy and route/timing flexibility.

Today four U.S. states—Nevada, Florida, California and Michigan—allow driverless cars on their public roads for the purpose of testing; several other states are considering similar allowances. Likewise, in 2013 the United Kingdom began allowing the testing of driverless cars on its

public roadways. Besides Google, several leading automakers and other companies have developed their own prototypes. Car enthusiasts can expect to see such examples from the likes of Mercedes-Benz, General Motors, Nissan, Toyota, Audi, Volvo, Tesla and others at auto shows over the next few years, and can look forward to getting "behind the wheel" of one within a decade. Whatever happens, it certainly is going to be quite a ride.

CONTACTS: Sightline Institute, www.sightline.org; Chandra Bhat, www.ce.utexas.edu/prof/bhat/home.html.

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Oysters from A5

maintain itself—and gradually expand reef habitat.

"We feel that the recruitment in the Lynnhaven has gone up phenomenally," said Susan Conner, chief of the Environmental Analyses Section of the Corps' Norfolk District. "That is a reason we are feeling pretty confident that it is likely a successfully restored tributary."

But, she stopped short of declaring it restored. "I think that is more than a Corps decision," she said. "The stakeholders in the tributary need to agree on that."

Better site selection

On Harris Creek, valuable lessons have been learned, too. The creek has been "seeded" with 1.2 billion oysters reared at the University of Maryland Horn Point Lab. There, spat is produced at a hatchery then allowed to settle onto oyster shells before being taken for planting at Harris Creek.

In the past, spat on shell was placed on suitable bottom identified using side-scan sonar. On Harris Creek, though, divers were

used to confirm the suitability of the bottom before the spat on shell was placed. Normally, spat survival is about 15 percent. But on Harris Creek, 37 percent of planted spat survived in 2012, and 35 percent in 2013 — more than twice what was expected.

Officials believe the new technique is likely responsible. If so, that could reduce the cost for Harris Creek and future projects, especially in Maryland where restoration is highly dependent on the use of hatchery oysters.

Still, there are many hurdles remaining for oyster restoration in both states. Perhaps most significantly, there is no guaranteed source of money — state or federal — for future projects, or to even complete the ones being started this year.

Much of the cost goes into reef construction, which requires large amounts of oyster shell, the supply of which is limited and increasingly expensive. Maryland recently began importing fossil oyster shell from Florida to use in reef construction, and both Maryland

and Virginia are experimenting with alternate substrates and construction techniques.

Another issue is that in Virginia there are relatively few large sanctuaries available for reef construction. That's one reason the Lafayette is an attractive restoration site — it's not a designated sanctuary, but the urban waterway is so polluted the oysters can't be harvested.

It's also been the site of several small-scale projects supported by the Elizabeth River Project and the Chesapeake Bay Foundation that have shown signs of success. And scientists were pleasantly surprised in March when they discovered several oyster reefs — left undisturbed for decades — were thriving in the river. Some oysters had grown as large as a man's hand.

But the Piankatank is different. While it includes sanctuaries, it also includes areas that allow for harvests of oyster "seed," which is transplanted to other rivers. It also has areas of leased bottom upstream of the restoration sites.

The Piankatank plan will need to ensure that a sizable patchwork of suitable habitat can be protected to meet restoration goals. "Anytime we want to do a restoration project, securing that bottom area is a hurdle both for the Corps and even for smaller groups," Conner said.

As big as the current restoration projects are, officials caution that restoring small tributaries is a long way from restoring the greatly depleted oyster populations of the Chesapeake.

Oyster bars were once a dominant feature of the Bay and its tidal tributaries, covering around 450,000 acres in the late 1800s. But overharvesting, disease and poor water quality caused oyster populations to plummet to 1 percent or less of their historic levels. Gone, too, is most of their habitat. Historic reefs were dredged away by harvesters, buried by sediment or the shells simply dissolved over time.

All of the oyster projects under way combined, when completed, would restore less than one-quarter of 1 percent of that historic oyster habitat.

Governor O'Malley Signs Bill to Prepare For Impacts of Climate Change and Extreme Weather

ANNAPOLIS, MD — Governor Martin O'Malley yesterday signed into law two pieces of legislation that will help the State prepare for the impacts of climate change and extreme weather in Maryland. The first, the Bay Acidification Bill, will create a Task Force to evaluate and address the effects of changing chemistry in the Chesapeake Bay and other Maryland waterways. The second, the CoastSmart Bill, will ensure the State follows standards to make safe and fiscally-wise investments when building or updating State agency structures located in vulnerable coastal areas.

"As severe weather events grow in size and impact, and our Bay's resources become threatened, the costs of inaction to our economy, society and environment will only grow exponentially," said Governor O'Malley. "This legislation helps us to get out in front of these very real, very important climate issues, and to secure the health, safety and future of our State and its citizens."

Underscoring the critical importance of preparing for these impacts, the Third National Climate Assessment, released today by the Obama Administration, confirmed that global warming is contributing to the intensity, frequency and duration of extreme weather events, including "superstorms" such as Hurricane Sandy, extreme precipitation events, heat waves, and coastal flooding due to heightened sea level rise and storm surge.

The Bay Acidification Bill (House Bill 118) will allow for the State to devise a team, or Task Force, of State leaders, and water quality, fishery and climate experts, to address how changing Bay chemistry negatively impacts Maryland's coast and shellfish industry. The Task Force will study and assess water quality in Maryland's Chesapeake and coastal bays, and review ocean acidification studies and findings from other states. The group will then present to policymakers recommendations for monitoring

and addressing acidification, and its effects on Maryland's commercial fishery and aquaculture industry by January 1, 2015.

The Task Force will include DNR Secretary Joe Gill and MDE Secretary Bob Summers, or their designees along with representatives from the State's aquaculture industry, the Maryland Watermen's Association, the National Aquarium in Baltimore, the University of Maryland Center for Environmental Science, and the Chesapeake Bay Foundation.

The Coast Smart Council Bill (House Bill 615) directs that all new and reconstructed State buildings be planned and built to avoid or minimize future flood damage, and creates the Coast Smart Council to oversee the state infrastructure projects. The law will ensure that the State makes safe and fiscally wise capital investments in the future by following siting and design standards for new and rebuilt State agency structures located in vulnerable areas. The bill does not affect

schools, roads or local government projects, only structures built by State agencies.

Governor O'Malley is currently serving as a member of President Obama's Task Force on Climate Preparedness and Resilience, charged with advising the President on how federal agencies can best help states and communities understand, prepare for, and reduce the impacts of climate change. Under Governor O'Malley's leadership, Maryland has engaged in nation-leading efforts in both addressing greenhouse gas emissions and preparing the State and its communities for the impacts of climate change. Governor O'Malley's leadership in efforts and programs such as the Greenhouse Gas Reduction Plan, the Climate Change and Coast Smart Construction Executive Order, Marylanders Plant Trees, landmark no-net loss of forest legislation; CoastSmart Communities earned him the League of Conservation Voters Climate Change Vision Award last year.