I have always wanted to somehow help somebody out in a big way, so when I had the chance to I jumped at the opportunity. It all started about 6 years ago when a local girl in my hometown was needing a bone marrow transplant to possibly help her fight Leukemia. They put on a bone marrow drive to try and find a match, they did not find a match unfortunately. While at the marrow drive, I signed up on the Be the Match registry, which was just a simple cotton swab of the inside of your mouth for DNA test. Over the next few years everything was quiet until one day, they called me for further testing for a patient needing a donation, unfortunately I was not a direct match, but this patient did find one however and made a full recovery. So another few years go by and another call from Be the Match comes. They needed further blood work for a patient with Multiple Myeloma. That blood work comes back and I was a perfect match for this patient, who was a 56 year old male. They told me of the process that I was going to have to do, which is called peripheral blood stem cell (PBSC.) I was somewhat relieved after hearing that this was a nonsurgical procedure, called apheresis. The process is much like the process for donating platelets. One key difference is that 5 days prior to the donation I would be taking daily injections of a medicine called filgrastim, which helps increase the number of blood forming cells (also called blood stem cells) in my body. On the day of my PBSC donation, my blood was removed through a needle in one arm and passed through a machine that collected only blood forming cells. The remaining blood was returned to me through a needle in the other arm. My whole procedure went without a problem.

At 27 days post-op the patient who received my blood stem cells has been released from the hospital. The donated blood stem cells seem to be doing what they need to be doing!

I would highly recommend everyone get tested and become part of the Be the Match registry. You just never know how you might help someone out!

Glass Wall at Rhodes Annex
Safety Hazard Reported / Resolved

Brad Hill from the Central Area Maintenance Department reported a glass wall safety hazard at Rhodes Annex to Tim Nix as part of the Facilities Safety Incentive Program. Brad Hill quoted, “the glass wall is very dangerous. Last month, I watched the Jimmy John’s delivery guy run into the glass so hard it knocked him down. I have seen several other students have near misses. It seems to happen often as there are new face smudges on it weekly.” As funny as this may seem, the glass wall was very dangerous. Brad recommended applying window tint so students and visitors will know the glass is there. Brad’s recommendation was received by Bob Wells and other Facilities Directors with gratitude and was fixed.

Thanks Brad!

Tim Nix  Glass Wall Before:

See Glass Wall “After” photo’s on page # 2
Fuels of the future taking center stage in the present

By Jim Melvin  jsmelvi@clemson.edu

CLEMSON – In the scientific community, opinions vary as to when human beings will finally use Earth’s underground reserves of petroleum. Thirty years? Fifty years? One hundred years? Though the timing is debatable, the outcome is not. At 7.3 billion people and growing, the human race will eventually deplete the world’s fossil fuels. Without viable alternatives firmly in place, chaos would result.

One alternative is biofuel, which is broadly defined as a fuel produced directly or indirectly from plant materials and animal waste. The result is a recycled product that is friendly to the environment.

Examples include:

- Biodiesel, which is made from vegetable oils and animal fats
- Ethanol, which is most often made from corn or sugarcane
- Green diesel, which is derived from algae and other plant sources
- Methane, which is derived from animal manure and other digested organic material

“Biodiesel production in the U.S. is increasing at a record pace, with 1.1 billion gallons being produced annually,” said David Thornton, the organics and biofuels project coordinator for Clemson University Facilities. “And this is expected to continue to increase as researchers develop more productive and sustainable oil sources. Diesel fuel is mainly used in agriculture, military and transport of goods. Currently, biodiesel has the potential to displace about 15 percent of diesel fuel used in the U.S.”

Thornton, who is also the composting facilities manager with the recycling program at Clemson, recently conducted a workshop titled “Make Your Own Biodiesel” at Cherry Crossing Research Facility near the main Clemson campus.

During his daylong workshop, Thornton demonstrated the process of making biodiesel, which involves a combination of heat, agitation and time. He also focused on essential safety and quality-control monitoring procedures designed to produce clean domestic fuel using cooking oil collected from Clemson’s campus cafeterias.

The cooking oil is first settled in tanks, which allows unwanted debris – called “gravy” – to sink to the bottom. The cleaner oil nearer the surface is then pumped into a reactor, where it is mixed with methanol and a catalyst. This process removes a thick alcohol from the vegetable oil molecules and replaces it with a lighter methyl alcohol to decrease the viscosity of the fuel, thus making it a drop-in replacement for ordinary diesel fuel. Further purification and filtering eventually result in a fuel that is fluid, moisture-free and ready for use in cars, tractors and any machines powered by diesel engines.

Biodiesel has many mechanical advantages in diesel engines, boosting cetane values, increasing lubricity and cleaning out fuel cylinders and injectors.

“Second-generation biodiesel feedstock such as algal and insect oils are on the horizon,” Thornton said. “These feed stocks can revolutionize fuel production by using non-arable land and industrial wastes to produce renewable energy and sustainable animal proteins, while at the same time not competing with food markets like their predecessors such as soybeans and corn.”

Most of the organic waste produced at the university is processed at the Cherry Crossing facility, where it is made into mulch, compost, animal feed and biofuel that is used on campus and also available for purchase.

“We recycle food waste, landscape residuals, agricultural residuals and even some construction debris,” Thornton said. “And eventually we’re going to be tackling bio-solids, which are the byproducts from anaerobic digesters at wastewater treatment plants. We also have a small gasification lab that’s being built, so by this time next year we hope to be converting waste plant and animal materials into natural gas.”
**From:** Debra Helvie  
**Sent:** Thursday, June 18, 2015 9:46AM  
**To:** Dian Egger-Hallquist  
**Subject:** Thanks!!

Hi Diane,

I just wanted to thank you and the HVAC crew for getting the air conditioning noise level way down in classroom 116 Kinard. It’s so much better!!! And I’ve also noticed that our office suite (Kinard 118) is much quieter and we can actually hear each other without having to raise our voices. Could you please also pass on our thanks to the person(s) who did the repairs?

Thanks again very much!!

Deb

Debra Helvie  
Administrative Assistant  
Dept. of Physics & Astronomy  
Clemson University

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**From:** Gerald Lecroy  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Boyce Woolbright  
**Subject:** FW: Brad Justice

Boyce,

I will have to agree Bradley is doing a great job for Facilities.

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William  
ph: 864-656-7688

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**From:** Elena Mikhailova  
**Sent:** Monday, July 20, 2015 3:21 PM  
**To:** Gerald Lecroy  
**Subject:** Brad Justice

Dear Lecroy,

I am writing to you to comment on the wonderful job Brad Justice has done painting hallways and offices in Lehotsky Hall. He has an excellent attention to detail and work ethic.

Sincerely,

Dr. Elena Mikhailova  
Associate Professor of Soil Science  
Department of Forestry and Environmental Conservation  
Clemson University

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**From:** Mickie Damesworth  
**Sent:** Monday, July 20, 2015 1:27 PM  
**To:** Thomas Horace Fallaw  
**Subject:** 110 Daniel Drive

Good Afternoon,

Hope you are well. I just wanted to thank you and your staff for how great they have made our entrance look (attached are some pictures we took). We get the most compliments and it is truly much more inviting for our guests. The staff is always so helpful and pleasant to work with and we truly appreciate all their efforts. The spring flowers were just as beautiful.

Again, thank you for all you have done for us!!

Mickie Damesworth  
ADMINISTRATIVE COORDINATOR  
DEVELOPMENT AND ALUMNI AFFAIRS  
110 DANIEL DRIVE  
CLEMSON, SC 29631

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**From:** Edward Cavanaugh  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Footnotes  
**Subject:** Custodial

Edward Cavanaugh  
Custodial

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**From:** Matthew Jones  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Footnotes  
**Subject:** Capital Projects

Matthew Jones  
Capital Projects

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**From:** Jerrad Ward  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Footnotes  
**Subject:** Support Services

Jerrad Ward  
Support Services

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**From:** Tyler Whitmire  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Footnotes  
**Subject:** Maintenance

Tyler Whitmire  
Maintenance

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**From:** Kathy Boice  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Footnotes  
**Subject:** Capital Projects

Kathy Boice  
Capital Projects

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**From:** Roxie Hicks  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Footnotes  
**Subject:** Custodial

Roxie Hicks  
Custodial

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**From:** Furman Stewart  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Footnotes  
**Subject:** Landscape

Furman Stewart  
Landscape

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**From:** Edith Whitner  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Footnotes  
**Subject:** Custodial

Edith Whitner  
Custodial

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**From:** Colleen Caracciolo  
**Sent:** Monday, July 20, 2015 3:48 PM  
**To:** Footnotes  
**Subject:** Facilitator issues

Colleen Caracciolo  
colleecc@clemson.edu  
656-4604

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**New Hires**

Edward Cavanaugh  
Custodial

Matthew Jones  
Capital Projects

Jerrad Ward  
Support Services

Tyler Whitmire  
Maintenance

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**Retirees**

Kathy Boice  
Capital Projects

Roxie Hicks  
Custodial

Furman Stewart  
Landscape

Edith Whitner  
Custodial

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**E-Cigarettes/Vaping**

The use of these devices has increased dramatically in the past few years, as some choose to use e-cigarettes/vaping instead of traditional tobacco products.

If you use E-Cigarettes/Vaping, please be advised:

The University considers their use the same as traditional tobacco products—they are not permitted to be used inside University buildings or vehicles.
# Birthdays

## July
- 7/1  Gregory Weitz
- 7/2  Dennis Roach
- 7/3  David Garrett
- 7/4  Thomas Gibson
- 7/4  Tony Putnam
- 7/8  William Patterson
- 7/10 Rusty McDonald
- 7/11 Todd Barnette
- 7/11 Steven Dubose
- 7/14 Kathy Boice
- 7/15 Clara Ditty
- 7/16 Jay Kaufman
- 7/17 Rose Crosby
- 7/21 Tammi Burdette
- 7/21 James Garrison
- 7/21 David Vandeventer
- 7/22 Michael Parker
- 7/23 Matthew Holbrooks
- 7/23 Tom Jones
- 7/25 Kevin Pruitt
- 7/26 Tom Suttles
- 7/27 Sandra McCurry
- 7/27 James McGee
- 7/28 Jay Whitmire
- 7/29 Katherine Daily
- 7/29 Robert Dover
- 7/31 William Pinson

## August
- 8/1  Kasey Cooley
- 8/1  Scot Wardlaw
- 8/2  Scott Burgess
- 8/3  Robert McCrarry
- 8/8  Zack Roach
- 8/11 Dennis Driscoll
- 8/11 Rod Holcombe
- 8/12 Randy Medlin
- 8/14 Bill Hurst
- 8/15 Annette Thomas
- 8/15 Spencer Waldrop
- 8/17 Tyler Jones
- 8/18 Scott Pugh
- 8/19 Larry Miller
- 8/21 Diane Egger-Hallquist
- 8/22 Bill Harmon
- 8/22 Howard Holland
- 8/22 Kevin McDonough
- 8/24 Teresa Cordell
- 8/27 John McEntire
- 8/29 Stanley Crowe
- 8/29 Bradley Goff
- 8/31 Tommi Jones
- 8/31 Keith Mize

## September
- 9/6  Scott Feagan
- 9/7  Keith Gates
- 9/7  Mark Smith
- 9/7  Daniel Springs
- 9/10 Butch Fortner
- 9/11 Donald Brewer
- 9/11 Dan Byers
- 9/11 Pawel Zdeb
- 9/14 Sid Blackwell
- 9/14 Dustin Thomson
- 9/14 Mack Whitmire
- 9/16 Lonnie Swafford
- 9/19 Jerrad Ward
- 9/20 Glenda Cotton
- 9/21 Felisha Twillie
- 9/22 Chris Kohler
- 9/22 Mike Todd
- 9/23 Scott Richey
- 9/26 Shelley Hackett
- 9/26 Don Keasler
- 9/26 Rick Tomlinson
- 9/26 Roger Wiggins
- 9/27 Oscar Salazar
- 9/29 John Gambrell
- 9/30 Charles Brown

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**Spring Picnic** - a great time for relaxation, food and socializing

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