

## **Potts, Gretchen**

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**From:** Chris Dockery [cdockery@kennesaw.edu]  
**Sent:** Sunday, January 02, 2011 2:49 PM  
**To:** Gretchen Potts  
**Subject:** Re: e-cigs

I think that will be OK, but we have not received our beginning of term meeting schedule from the chair. I'll let you know if anything comes up that would change my schedule.

Christopher R. Dockery, PhD  
Assistant Professor  
Department of Chemistry and Biochemistry  
Kennesaw State University  
1000 Chastain Rd #1203  
Kennesaw GA 30144  
office:678-797-2047 fax:770-423-6744  
<http://science.kennesaw.edu/~cdockery/>

----- Original Message -----

**From:** "Gretchen Potts" <gretchen-potts@utc.edu>  
**To:** "Chris Dockery" <cdockery@kennesaw.edu>  
**Sent:** Wednesday, December 29, 2010 12:56:01 PM GMT -05:00 US/Canada Eastern  
**Subject:** RE: e-cigs

Would 1 pm be OK? I have may have a meeting at UTC from 9 – 10:30. I could come after the meeting.

Thanks,  
Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

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**From:** Chris Dockery [mailto:cdockery@kennesaw.edu]  
**Sent:** Saturday, December 25, 2010 6:09 PM  
**To:** Gretchen Potts  
**Subject:** Re: e-cigs

that should be fine.

Christopher R. Dockery, PhD

Assistant Professor  
Department of Chemistry and Biochemistry  
Kennesaw State University  
1000 Chastain Rd #1203  
Kennesaw GA 30144  
office:678-797-2047 fax:770-423-6744  
<http://science.kennesaw.edu/~cdockery/>

----- Original Message -----

From: "Gretchen Potts" <[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)>  
To: "Chris Dockery" <[cdockery@kennesaw.edu](mailto:cdockery@kennesaw.edu)>  
Sent: Tuesday, December 21, 2010 10:37:48 AM GMT -05:00 US/Canada Eastern  
Subject: RE: e-cigs

How does Jan. 5 work for you?

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
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[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

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**From:** Chris Dockery [<mailto:cdockery@kennesaw.edu>]  
**Sent:** Monday, December 13, 2010 8:21 AM  
**To:** Gretchen Potts  
**Subject:** Re: e-cigs

I should be around the 4th - 7th.

Christopher R. Dockery, PhD  
Assistant Professor  
Department of Chemistry and Biochemistry  
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<http://science.kennesaw.edu/~cdockery/>

----- Original Message -----

From: "Gretchen Potts" <[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)>  
To: "Chris Dockery" <[cdockery@kennesaw.edu](mailto:cdockery@kennesaw.edu)>

Sent: Thursday, December 9, 2010 8:55:40 AM GMT -05:00 US/Canada Eastern  
Subject: RE: e-cigs

Actually, I was thinking of making a trip down to see you in early Jan. We don't start classes until Jan. 10. Are you going to be around the week of Jan. 3?

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
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[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

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**From:** Chris Dockery [mailto:[cdockery@kennesaw.edu](mailto:cdockery@kennesaw.edu)]  
**Sent:** Wednesday, December 08, 2010 7:44 PM  
**To:** Gretchen Potts  
**Subject:** Re: e-cigs

should I mail samples? plan a day trip to deliver them? I have the refill liquid and the prefilled nebulizer cartridges. We have tested both for nicotine. We tested the liquid by dilution and standard injection gcms. We tested the vapor using a gas tight syringe and injecting into a splitless liner. We also tried spme with limited success, but may be worth revisiting.

Christopher R. Dockery, PhD  
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<http://science.kennesaw.edu/~cdockery/>

----- Original Message -----

From: "Gretchen Potts" <[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)>  
To: "Chris Dockery" <[cdockery@kennesaw.edu](mailto:cdockery@kennesaw.edu)>  
Sent: Monday, December 6, 2010 10:35:25 AM GMT -05:00 US/Canada Eastern  
Subject: RE: e-cigs

Yes, we would like to do a metals analysis with the ICP. Unfortunately, we do not have image ability. But, we do know what metals are typically found in tobacco, so we can do analysis along those lines. Also, we can do common elements that are found in manufacturing processes.

This sounds like a great plan!  
Gretchen

Gretchen E. Potts, Ph.D.  
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<http://www.utc.edu/Gretchen-Potts>

[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** Chris Dockery [mailto:[cdockery@kennesaw.edu](mailto:cdockery@kennesaw.edu)]

**Sent:** Monday, December 06, 2010 10:29 AM

**To:** Gretchen Potts

**Subject:** Re: e-cigs

Sure. I've started with a student doing gas tight gcms directly off the nebulizer. We've found only nicotine and propylene glycol and the vapors seem to be very clean which surprised me a bit for online order of unregulated product. Would you be interested in looking at the metals content? Does your ICP allow you to image the CCD for qualitative analysis? Since the cartridges are synthetic, there may not be any metal. Other thoughts?

Christopher R. Dockery, PhD  
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<http://science.kennesaw.edu/~cdockery/>

----- Original Message -----

From: "Gretchen Potts" <[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)>

To: "Chris Dockery" <[cdockery@kennesaw.edu](mailto:cdockery@kennesaw.edu)>

Sent: Monday, December 6, 2010 10:11:47 AM GMT -05:00 US/Canada Eastern

Subject: RE: e-cigs

Hey are you still interesting in collaborating on this? I finally have some time and a student who is interested.

Gretchen

Gretchen E. Potts, Ph.D.  
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[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** Chris Dockery [mailto:[cdockery@kennesaw.edu](mailto:cdockery@kennesaw.edu)]  
**Sent:** Wednesday, July 28, 2010 11:32 AM  
**To:** Gretchen Potts  
**Subject:** Re: e-cigs

I'll be in and out next week and full time starting August 9.

Christopher R. Dockery, PhD  
Assistant Professor  
Department of Chemistry and Biochemistry  
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<http://science.kennesaw.edu/~cdockery/>

----- Original Message -----

From: "Gretchen Potts" <[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)>  
To: "Chris Dockery" <[cdockery@kennesaw.edu](mailto:cdockery@kennesaw.edu)>  
Sent: Wednesday, July 28, 2010 10:09:18 AM GMT -05:00 US/Canada Eastern  
Subject: RE: e-cigs

Chris,

Can I call you about this sometime next week? I am still only into work parttime for right now.

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
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---

**From:** Chris Dockery [mailto:[cdockery@kennesaw.edu](mailto:cdockery@kennesaw.edu)]  
**Sent:** Tuesday, July 27, 2010 11:54 AM  
**To:** Gretchen-Potts@utc.edu  
**Subject:** Re: e-cigs

You can get the refill solution and don't have to use the nebulizer.

Christopher R. Dockery, PhD  
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<http://science.kennesaw.edu/~cdockery/>

----- Original Message -----

From: "Gretchen Potts" <Gretchen-Potts@utc.edu>  
To: cdockery@kennesaw.edu  
Sent: Tuesday, July 27, 2010 9:52:30 AM GMT -05:00 US/Canada Eastern  
Subject: Re: e-cigs

It might be, but we might actually destroy the ecig by the time we get through with it...would that be a problem?

Gretchen

-----Original Message-----

From: Chris Dockery <cdockery@kennesaw.edu>  
To: Gretchen-Potts@utc.edu  
Date: Mon, 26 Jul 2010 23:26:41 -0400 (EDT)  
Subject: e-cigs

Hi Gretchen,

How is your summer going? I was wondering if you have ever looked at the electronic cigarettes? I have access to some of them and thought it may be interesting to test for major organic and inorganic components. The manufacturer's claim that only water vapor is the byproduct and that there is no second hand smoke because no combustion reaction occurs. Just curious if you have any data on this or would be interested in collaborating?

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UT-Chattanooga  
615 McCallie Ave  
Chattanooga, TN 37403

<http://www.utc.edu/Gretchen-Potts>

## **Potts, Gretchen**

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**From:** Gretchen Potts [gretchen-potts@utc.edu]  
**Sent:** Thursday, January 20, 2011 9:52 AM  
**To:** 'Amy Balestrino'  
**Subject:** FW: FDA press releases on e-cigs

Here are some links sent to me by my colleague in Georgia.

Dr. Potts

Gretchen E. Potts, Ph.D.  
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**From:** Chris Dockery [<mailto:cdockery@kennesaw.edu>]  
**Sent:** Thursday, January 20, 2011 8:45 AM  
**To:** [Gretchen-Potts@utc.edu](mailto:gretchen-potts@utc.edu)  
**Subject:** FDA press releases on e-cigs

<http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm225224.htm>  
<http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm173222.htm>  
<http://www.fda.gov/newsevents/publichealthfocus/ucm172906.htm>

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## Potts, Gretchen

**From:** ECigarettesChoice.com [CustService@ECigarettesChoice.com]  
**Sent:** Monday, January 31, 2011 2:55 PM  
**To:** gretchen-potts@utc.edu  
**Subject:** Your Order From ECigarettesChoice.com

## Thanks for Your Order!



Your order ID is #156315.

### Shipping to Address

**Gretchen Potts**  
UTC Chemistry  
701 Vine Street, 318 Grote Hall  
Chattanooga, Tennessee 37403  
United States  
423-425-5296

### Billing Address

**Gretchen Potts**  
UTC Chemistry  
615 McCalle Ave, #2252  
Chattanooga, Tennessee 37403  
United States  
423-425-5296

### Your Order Will Be Shipped By...

UPS (Ground) for \$12.24 USD

### Your Order Contains the Following Items...

Cart Items	SKU	Qty	Item Price	Item Total
SS Choice No. 7 Disposable "500" Apple		1	\$14.99 USD	\$14.99 USD
SS Choice No. 7 Disposable "500" Blueberry		1	\$14.99 USD	\$14.99 USD
SS Choice No. 7 Disposable "500" Tobacco		1	\$14.99 USD	\$14.99 USD
SS Choice No. 7 Micro Go Kit - White	5060180080051	1	\$39.99 USD	\$39.99 USD
Items:				\$84.96 USD
Shipping:				\$12.24 USD
<b>Total Cost:</b>				<b>\$97.20 USD</b>

Don't forget to Visit us on Facebook and become a part of our growing community ! Visit our new [Facebook Page](#) and watch for **c-o-u-p-o-n-s** while you let *everyone* know about our No.7 Premium E-Cigarettes! When you are ready for Refills, *Order Online 24/7* at [www.ECigarettesChoice.com](http://www.ECigarettesChoice.com).

Ohhh ! By the way - do you have what it takes to tell us your Exciting **No.7 Premium E-Cigarettes Story**? Share it with the World at [www.MyNo7Story.com](http://www.MyNo7Story.com).

**ECigarettesChoice.com**  
<http://www.ecigaretteschoice.com/>



## Potts, Gretchen

From: orders@vapor4life.com  
Sent: Monday, January 31, 2011 3:18 PM  
To: gretchen-potts@utc.edu  
Subject: Vapor4Life Order Confirmation



CustomerID# 36199

**Please do not reply to this email. If you have questions or concerns please contact  
customer\_service@vapor4life.com**

Thank you for your order. Your order number is 134894, placed 1/31/2011 at 2:17PM.

**Bill To:**

UTC Chemistry  
Gretchen Potts  
615 McCallie, #2252  
Chattanooga, TN 37403  
United States  
423-425-9-5296  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

**Ship To:**

UTC Chemistry  
Gretchen Potts  
615 McCallie, #2252  
Chattanooga, TN 37403  
United States  
423-425-9-5296

**Payment Info:**

**Credit Card:** Visa



**Shipping Method:**

Shipping & Handling

**Order Details:**

Code	Item	Qty	Price	Total
PVK-TOBACCOSHOP-36	Premium Vapor King Tobacco Shop Sampler # 2 Cartomizers (Box of 5) - 36mg	1	\$7.50	\$7.50
PVK-Blanks	WOW Vapor King Blank Cartomizers (Pack of 5) [Cart Color: White]	1	\$8.95	\$8.95
WOW30-Kamel-36	Kamel Wow Vapor Juice (30ml) - 36mg	1	\$12.50	\$12.50
LQ30COWBOY-36	Cowboy Nobacco Juice (30 ml) - 36mg	1	\$12.50	\$12.50
DSC-150	35% off Everything	1	-\$14.51	\$14.51

Sub Total: \$26.94

Tax: \$0.00

Shipping: \$6.95

Grand Total: \$33.89

Thank you for shopping at Vapor4Life!  
Visit us again at <http://store.vapor4life.com/>

**Potts, Gretchen**

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**From:** orders@vapor4life.com  
**Sent:** Tuesday, February 01, 2011 2:46 PM  
**To:** gretchen-potts@utc.edu  
**Subject:** Your order has shipped...



**Please do not reply to this email. If you have questions or concerns please contact  
customer service@vapor4life.com**

Hello Gretchen,

Your order has shipped. (Order#: 134894 placed on 1/31/2011)

- To track your package visit the following link:  
<https://store.vapor4life.com/orderdetails.asp?OrderID=134894>
- Here are your Tracking Numbers:

Carrier	Tracking Number	Date Shipped
USPS	9405515901021339136010	1/31/2011

- You may also use the preceding link to review your order details or print an invoice

**Thanks again for shopping at Vapor4Life!**  
Visit us anytime at <http://store.vapor4life.com/>

## Potts, Gretchen

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**From:** GreenSmoke [donotreply@greensmoke.com]  
**To:** gretchen-potts@utc.edu  
**Subject:** Payment Received for 110131-144304-7077

We would like to inform you that payment for order number 110131-144304-7077 has cleared.

Please read the following information about delivery times.

Orders are shipped out Monday - Thursday from 9AM to 3PM, Fridays from 9AM to 11AM.

Orders are shipped out within 48 hours.

To review your delivery confirmation number please log into your account at [www.greensmoke.com](http://www.greensmoke.com), then select `My Account` and `Order History`. Your delivery confirmation number will appear in the `Notes to send to customer` section in each order.

Please note that USPS does not provide detailed tracking on [www.usps.com](http://www.usps.com).

Returns or replacements will not be processed without an RMA number provided to you by our customer service. Please call 1-888-224-1345 or contact us through

[www.greensmoke.com/support](http://www.greensmoke.com/support).

### Domestic Orders

- First Class Mail : 1 - 5 business days : limited to orders up to 13oz
- Priority Mail : 1 - 3 business days : for larger packages
- Express Mail : 1 - 2 business days
- FedEx Ground : 1 - 5 business days
- FedEx 3 Day Express Saver: Delivery to businesses by 4:30 p.m. and to residences by 7:00 p.m. in 3 business days.
- FedEx 2Day : Delivery by 4:30 p.m. in 2 business days to most areas (by 7 p.m. to residences)
- FedEx Standard Overnight : Next-business-day delivery by 3 p.m. to most U.S. addresses; by 4:30 p.m. to rural areas
- FedEx Priority Overnight : Next-business-day delivery by 10:30 a.m. to most U.S. addresses; by noon, 4:30 p.m. or 5:00 p.m. in remote areas; by noon, 1:30 p.m. or 4:30 p.m. on Saturdays
- FedEx First Overnight : Next-business-day delivery by 8:00, 8:30, 9:00 or 10:00 a.m., depending on destination ZIP code
- FedEx does not deliver to a PO BOX address, if you choose a PO BOX as your Shipping Address, the order will be sent using USPS

### International Orders

International orders can take around 7-30 business days to reach you once they are shipped. Delays can be due to customs.

If you'd like to make changes to your order, you must do so within 1 hour from the time you submit your order.

NOTE - order changes can only be made during Customer Service business hours. These changes include cancellation requests, address changes, upgraded shipping or adding items to your order.

Greensmoke customer service

<http://greensmoke.com/support/>

Sunday-Thursday 9AM to 5PM

888-224-1345

## Potts, Gretchen

---

**From:** GreenSmoke [donotreply@greensmoke.com]  
**Sent:** Tuesday, February 01, 2011 5:00 PM  
**To:** gretchen-potts@utc.edu  
**Subject:** Information from GreenSmoke

Dear Gretchen Potts,

We have shipped your order number 110131-144304-7077.

The following is your USPS delivery confirmation number:

9400110200793245271108

Please take note: As your order has been shipped it is no longer possible to alter it in anyway.

### USA CUSTOMERS:

Standard USPS Shipping usually takes 3-5 business days to arrive Expedited USPS Shipping usually takes 1-3 business days to arrive

### ATTENTION INTERNATIONAL CUSTOMERS:

International shipping can take 10-30 business days to arrive. Please note that international shipments cannot be tracked to their final destination. Contact us if you have any shipping questions.

Please take note that USPS does not always scan our shipments at point of entry. Often there will be no tracking information until delivery. The number that we provide for USPS is only a `Delivery Confirmation` However it is a good idea to check the tracking often as they do update information. If you don't see any update, don't be alarmed, your order is on its way and should get to you shortly.

Please track your deliveries at:

<http://trkcnfrm1.smi.usps.com/PTSIInternetWeb/InterLabelInquiry.do?origTrackNum=9400110200793245271108>

Please note that USPS tracking information can take up to 48 hours to update and appear.

Green Smoke Customer Service  
<http://greensmoke.com/support/>  
888-224-1345  
Sunday-Thursday 9am-5pm EST.

## Potts, Gretchen

---

**From:** Gretchen Potts [gretchen-potts@utc.edu]  
**Sent:** Wednesday, February 16, 2011 10:02 AM  
**To:** 'Amy Balestrino'  
**Subject:** Come by today if you can

Amy,

I am done editing. Come by my office today if you have a chance. I will be here from 10 – 12 and then from 2:30 – 5.

Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296

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<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

## Potts, Gretchen

---

**From:** Gretchen Potts [gretchen-potts@utc.edu]  
**Sent:** Tuesday, February 22, 2011 1:41 PM  
**To:** 'Amy Balestrino'  
**Subject:** RE: DHON proposals

It will need to be hardy copy and we need to complete a form. Can you come by tomorrow morning?

Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
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[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** Amy Balestrino [mailto:vxm473@mocs.utc.edu]  
**Sent:** Tuesday, February 22, 2011 1:36 PM  
**To:** Gretchen Potts  
**Subject:** Re: DHON proposals

Just picked up my proposal from Joanie. She took out a word so I am going to make that change. Do I need to submit it to be reviewed by the department in electronic or hard copy form?

Thanks,

Amy

On Feb 21, 2011, at 11:58 AM, Gretchen Potts wrote:

If she hasn't gotten back to you by next Monday, we'll put it forward as is. The only person who really reads it is me.

Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

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[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

## Potts, Gretchen

---

**From:** Gretchen Potts [gretchen-potts@utc.edu]  
**Sent:** Friday, March 04, 2011 9:50 AM  
**To:** 'Amy Balestrino'  
**Subject:** FW: Departmental Honors Proposal: SENATE\_FTFaculty  
**Attachments:** Balestrino\_DHONProposal.pdf

Amy,

You need to submit your final proposal to [DHON@utc.edu](mailto:DHON@utc.edu) by next Friday (see below). Attached is the proposal in PDF format. Please use this file for your submission as I made a couple spacing corrections. Also, please copy me (and yourself) on the email that you send so we both end up with a copy.

I will make sure your

Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
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FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** Joanie E Sompayrac [<mailto:Joanie-Sompayrac@utc.edu>]  
**Sent:** Monday, February 21, 2011 10:58 AM  
**To:** SENATE\_FTFaculty :  
**Subject:** Departmental Honors Proposal: SENATE\_FTFaculty

Just a reminder that if you have students proposing to begin their Departmental Thesis (DHON) projects in the fall, they need to submit their FINAL proposals to [DHON@UTC.EDU](mailto:DHON@UTC.EDU) no later than Friday, March 11. The signed cover page must be turned into me in 202 Guerry Center on Friday, March 11 as well. If anyone has question, please contact me by email.

Joanie  
[Joanie-Sompayrac@utc.edu](mailto:Joanie-Sompayrac@utc.edu)

## Potts, Gretchen

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**From:** Gretchen Potts [gretchen-potts@utc.edu]  
**Sent:** Sunday, March 06, 2011 6:05 PM  
**To:** 'Amy Balestrino'  
**Subject:** PSRA

Can you come by in the morning (after biochem) to discuss the PSRA?

Thanks,  
Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)



## Potts, Gretchen

---

**From:** Gretchen Potts [gretchen-potts@utc.edu]  
**Sent:** Tuesday, March 08, 2011 2:22 PM  
**To:** 'Amy Balestrino'  
**Subject:** FW: Departmental Honors Proposal: SENATE\_FTFaculty  
**Attachments:** Balestrino\_DHONProposal.pdf

Amy,

I sent you this email last Friday, but have not received a copy of your email with the final proposal to the DHON email address. Have you submitted it?

Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296

FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** Gretchen Potts [mailto:gretchen-potts@utc.edu]  
**Sent:** Friday, March 04, 2011 9:50 AM  
**To:** 'Amy Balestrino'  
**Subject:** FW: Departmental Honors Proposal: SENATE\_FTFaculty

Amy,

You need to submit your final proposal to [DHON@utc.edu](mailto:DHON@utc.edu) by next Friday (see below). Attached is the proposal in PDF format. Please use this file for your submission as I made a couple spacing corrections. Also, please copy me (and yourself) on the email that you send so we both end up with a copy.

I will make sure your

Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296

## Potts, Gretchen

---

**From:** Amy Balestrino [vxm473@mocs.utc.edu]  
**Sent:** Tuesday, March 08, 2011 2:31 PM  
**To:** Gretchen Potts  
**Subject:** PSRA  
**Attachments:** PSRA.doc

# PROVOST STUDENT RESEARCH AWARDS

## COVER SHEET

### Applicant Information

Student Name Amy Balestrino

Undergraduate ☒

Graduate ☐

Sem. Hours Completed 104

UTC ID VXM473

Major BS Chemistry

UTC Email Amy-Balestrino@mocs.utc.edu

Home Address/Phone 714 Oak St, Apt 00011, Room 306, Chattanooga, TN 37403

Faculty Sponsor Gretchen E. Potts

Department Chemistry

### Project Information

Project Title Safe Smoking: A Study of Electronic Cigarettes

Start Date July 1, 2011 End Date June 30, 2012 Student hours per week 6/week

Research Course Registration (if applicable) Chem 4995

### Budget Information

Object Code

Amount

18 Student Bi-weekly\*  
31 Travel  
33 Printing/Duplicating  
35 Communications  
38 Computer Service  
39 Supplies  
62 Minor Equipment  
Mailing (other)

\$300.00

\$250.00

\$400.00

Total Requested:

\$950.00

\*Undergraduate = \$4.25/hr  
Graduate = \$4.45/hr

### Signatures

Amy Balestrino  
Student

Gretchen E. Potts  
Faculty Sponsor

Tom Rybolt  
Department Head

### Approvals

\_\_\_\_\_  
Director, Financial Aid

\_\_\_\_\_  
Chair, Faculty Research Cmte

\_\_\_\_\_  
Chief Research Officer

Total Funded \_\_\_\_\_

Comments \_\_\_\_\_

Submit original and 25 copies to the Chair of the Faculty Research Committee by March 16.

**Safe Smoking: A Study of Electronic Cigarettes**  
**Amy R. Balestrino**  
**Advisor: Gretchen E. Potts, Ph.D.**

## **Introduction**

The race to find a “safe” cigarette is not a new venture. Electronic cigarettes, or e-cigarettes, are part of a rapidly growing class of electronic nicotine-delivery systems that many companies claim to be a safer alternative to conventional cigarettes.<sup>1</sup> Additionally, these same manufacturers market the positive aspects of e-cigarettes. For example, e-cigarettes reportedly can be smoked inside and no matches are needed. One manufacturer of e-cigarettes, The Vapor4Life Team, includes a card with the product that states “[e-cigarettes] are not subject to any state or federal smoking bans” and one exhales a vapor that consists of 99% water and 1% nicotine along with other flavorings.<sup>2</sup> However, e-cigarettes have received little to no laboratory research, which raises a red flag.

The U.S. Food and Drug Administration (FDA) has conducted preliminary research on various samples.<sup>3</sup> According to the FDA, e-cigarettes are defined as new drugs and are not under the Family Smoking Prevention and Tobacco Control Act as outlined by Congress. For example, the FDA’s Center for Drug Evaluation, Division of Pharmaceutical Analysis (DPA) has analyzed the cartridges of two of brands of e-cigarettes. Specifically, this analysis reveals the following detectable levels of known carcinogens and other toxic chemicals: diethylene glycol, tobacco-specific nitrosamines, anabasine, myosmine, and  $\beta$ -nicotyrine.<sup>4</sup> However, research to this date is still quite vague and limited.

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<sup>1</sup> Yamin, Cyrus K.; Bitton, Asaf; Bates, David W. *Annals of Internal Medicine* **2010**, 153(9), 607-609.

<sup>2</sup> “The Original Vapor King: Vapor4Life.” [www.vapor4life.com](http://www.vapor4life.com) (accessed 2011).

<sup>3</sup> “Summary of Results: Laboratory Analysis of Electronic Cigarettes Conducted By FDA.” <http://www.fda.gov/NewsEvents/PublicHealthFocus/ucm1173146.htm> (accessed 2011).

<sup>4</sup> Ibid.

## **Research Proposal**

The analysis of the components of e-cigarette cartridges will occur in two phases. In the first phase, an analytical procedure will be developed to identify and quantify organic compounds and any metal contaminants present. The second phase involves the direct analysis of various filling solutions by both GC-MS and ICP. This data can then be compared to the published data of conventional cigarettes. The research plan is explained in more detail below.

### **Research Plan**

1. **Sampling Program:** There will be both electronic cigarettes as well as disposable electronic cigarettes used during this research. Various brands, as well as flavors, will be purchased.
2. **Smoking Procedure:** A smoking mechanism will be developed that will draw vapor through tubing and into a solution, trapping the components of the vapor.
3. **Extraction Technique:** Next, C-18 solid phase extraction (SPE) columns will be used to extract the nonpolar organic compounds in the solutions, while any metals present will simply pass through the column. An SPE column is filled with silicon dioxide ( $\text{SiO}_2$ ) particles that are coated with long chain hydrocarbons, specifically 18-chain carbons, referred to as C-18 columns. The nonpolar nature of the column will attract any nonpolar organic compounds that are present and any metals dissolved in solution will pass through the column. The metals that remain dissolved in the solution will be analyzed and the nonpolar material that resides on the column will be eluted with a wash of a partially nonpolar solvent and analyzed as well. This technique will separate any organic molecules.

4. **Identification and Verification Analysis:** Gas chromatography coupled with mass spectrometry as well as inductively coupled plasma optical emission spectrometry will be used for analysis. The metals that remain dissolved in the solution will be analyzed by inductively coupled plasma optical emission spectrometry (ICP-OES). The nonpolar material that resides on the column will then be eluted with a wash of a partially nonpolar solvent and analyzed by gas chromatography-mass spectrometry (GC-MS). This technique will separate organic molecules in the GC and then these molecules will be detected by mass spectrometry. Any compounds found will also be compared to conventional cigarette data.

#### **Budget and Budget Justification**

Funding for this project is requested for the Summer of 2011, Fall of 2011, and the Spring of 2012. The electronic cigarette cartridges and filling solutions are the most expensive portion of this project. A starter kit costs almost \$100 and we plan to use multiple brands. Another costly item are the SPE columns, which cost \$100 for a package of 30 columns. Therefore, equipment funds are request to help to defer these costs. Additional funds are also requested for travel to regional and national chemistry conferences to present and discuss the findings made at UTC.

#### **Conclusion**

The main goal of this research is to verify as many compounds as possible within electronic cigarettes that have never been verified and published. Trying to quantify a compound that has not been verified in a sample would be a difficult task. If the results are published in the literature it will give a starting point for other researchers to determine exactly how electronic cigarettes will affect the health of the public.

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Thursday, March 24, 2011 11:29 AM  
**To:** 'Amy Balestrino'  
**Subject:** I hate to do this to you...

Amy,

I have a ton of stuff that has come up this afternoon and I was wondering if we can push your first research session to next Tuesday. I know you were excited to get started, but I really want to give you an entire afternoon of my time and at this point I cannot. I have already blocked off next Tuesday afternoon so no one else can schedule anything.

I hope you understand,  
Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

## Potts, Gretchen

---

**From:** Dr. Darrell Meece [darrell-meece@utc.edu]  
**Sent:** Sunday, March 20, 2011 11:36 AM  
**To:** 'Gretchen Potts'  
**Subject:** RE: PSRA Proposal of Amy Balestrino

Hi Gretchen I wanted to confirm I have this attachment and this is all that is needed.

---

**From:** Gretchen Potts [<mailto:gretchen-potts@utc.edu>]  
**Sent:** Wednesday, March 09, 2011 2:55 PM  
**To:** [Darrell-meece@utc.edu](mailto:Darrell-meece@utc.edu)  
**Cc:** 'Karen I. Adsit'; 'Amy Balestrino'  
**Subject:** PSRA Proposal of Amy Balestrino

Dear Darrell,

Attached is a PSRA proposal for Amy Balestrino. Please let me know if you need a hard copy of anything.

Thanks,  
Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)



## Potts, Gretchen

---

**From:** Kellie Karaky [kellie-karaky@utc.edu]  
**Sent:** Wednesday, April 13, 2011 4:34 PM  
**To:** amy-balestrino@mocs.utc.edu  
**Cc:** Potts, Gretchen; Rybolt, Tom; Herbert Burhenn; Kelly Griffin; Terry Zimmer; Loftin, Karen  
**Subject:** PSRA Results  
**Attachments:** Balestrino\_Amy.pdf  
**Importance:** High

Good afternoon, Amy!

Attached to this email in .pdf format is a copy of the Faculty Development Committee's decision on your proposal.

I have consulted with Dr. Meece, Chairman, Faculty Development Committee, and we are in agreement that all applicants should be contacted in this way. Therefore, I am emailing everyone an electronic copy of their decision letter.


If you require any additional information, please do not hesitate to contact me.

Kindly,

*Kellie*

Kellie L. Karaky  
Walker Teaching Resource Center  
423-425-4188

This correspondence should be considered a public record and subject to public inspection pursuant to the Tennessee Public Records Act

 Please consider the planet before printing this email



Faculty Development Committee  
615 McCallie Avenue  
Chattanooga, TN 37403  
423.425.4026 • FAX: 423.425.4025

**April 13, 2011**

Dear Amy Balestrino,


On behalf of the Faculty Development and Research Committee, it is my pleasure to inform you that your proposal for a Provost Student Research Award has been recommended for funding in the amount of \$950. These funds will become available after July 1, 2011.

Please note that you must obtain prior approval from the IRB or IACU Committee if your research involves human or animal subjects. Rights to intellectual property developed under this grant will be governed by the UT Statement of Policy on Patents, Copyrights, and Licensing.

Financial arrangements for your grant will be handled by Ms. Karen Loftin, Staff Accountant for the UC Foundation. Please contact her in the Business and Financial Affairs Office when you are ready to begin your research. Be sure to keep all receipts and proof of expenses as per the submitted budget.

Should you leave the University prior to completion of this project, this grant will be forfeited.

I wish you well with your project. Congratulations.



**Darrell Meece**

Chair, Faculty Development and Research Committee

cc: Faculty Sponsor  
Department Head  
Dean  
Karen Loftin, Business and Financial Affairs (Mail Code 5701)  
Walker Teaching Resource Center (Mail Code 4354)

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Wednesday, April 13, 2011 5:14 PM  
**To:** 'Amy Balestrino'  
**Subject:** FW: PSRA Results  
**Attachments:** Balestrino\_Amy.pdf

**Importance:** High

Congratulations!

Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296

FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** Kellie Karaky [<mailto:kellie-karaky@utc.edu>]  
**Sent:** Wednesday, April 13, 2011 4:34 PM  
**To:** [amy-balestrino@mocs.utc.edu](mailto:amy-balestrino@mocs.utc.edu)  
**Cc:** Potts, Gretchen; Rybolt, Tom; Herbert Burhenn; Kelly Griffin; Terry Zimmer; Loftin, Karen  
**Subject:** PSRA Results  
**Importance:** High

Good afternoon, Amy!

Attached to this email in .pdf format is a copy of the Faculty Development Committee's decision on your proposal.

I have consulted with Dr. Meece, Chairman, Faculty Development Committee, and we are in agreement that all applicants should be contacted in this way. Therefore, I am emailing everyone an electronic copy of their decision letter.


If you require any additional information, please do not hesitate to contact me.

Kindly,

*Kellie*

Kellie L. Karaky  
Walker Teaching Resource Center  
423-425-4188

This correspondence should be considered a public record and subject to public inspection pursuant to the Tennessee Public Records Act

 Please consider the planet before printing this email

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Thursday, April 21, 2011 1:47 PM  
**To:** 'Amy Balestrino'  
**Subject:** Data  
**Attachments:** 041911pottsele2\_b.xls

Here it is again.

Dr. Potts

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

ICP-Spectroscopy: "ULTIMA-2" Nr.: 0.0.0.0.0.															
Measurement parameters		Plasma PL1		Method:		072010-testpreshtdown1000W		Pump Speed: 0		Nebulizer Flow: 0.07		Sheath IG1		DateTim ##### Power: 1000	
Time		El. Line		Raw intensity		Bkg. left		Bkg. right		Net intensity		Solution[C]		Sample[C]	
Name:		water Type:		Analysis		#: 35		Rack:		5 Tube:		4 Weight: 1.0000		Volume: 1.00 Dilution: 1.00	
WaveLength Calibration =>		Element C		Ref.:		193.026		Calc.:		193.0260		Offset:		-0.0918	
5:15:56 PM		As		189.042		14,510.08		9,258.43		5,251.66		-36.43 X		-36.43 X	
5:16:06 PM		As		189.042		14,355.27		10,318.84		4,036.43		-45.83 X		-45.83 X	
5:16:17 PM		As		189.042		14,261.52		9,812.73		4,448.79		-42.64 X		-42.64 X	
[As] = -41.63 X µg/l		RSD: 11		Offset: -0.3190											
5:16:23 PM		Se		196.026		7,423.38		6,769.36		654.02		-302.37 X		-302.37 X	
5:16:29 PM		Se		196.026		7,324.51		7,006.27		318.24		-312.54 X		-312.54 X	
5:16:34 PM		Se		196.026		7,517.92		6,715.82		802.10		-297.89 X		-297.89 X	
[Se] = -304.27 X µg/l		RSD: 2.		Offset: 0.0853											
5:16:38 PM		Cr		205.552		8,577.22		8,924.12		-346.90		-0.09 X		-0.09 X	
5:16:44 PM		Cr		205.552		8,808.12		8,773.64		34.48		-0.09 X		-0.09 X	
5:16:50 PM		Cr		205.552		8,762.76		8,932.03		-169.27		-0.09 X		-0.09 X	
[Cr] = -0.09 X mg/l		RSD: 0.		Offset: -0.0546											
5:16:57 PM		Sb		206.833		8,029.83		7,757.81		272.02		-9.48 X		-9.48 X	
5:17:03 PM		Sb		206.833		7,796.87		7,943.53		-146.66		-22.93 X		-22.93 X	
5:17:09 PM		Sb		206.833		7,660.35		7,615.75		44.60		-16.78 X		-16.78 X	
[Sb] = -16.40 X µg/l		RSD: 41		Offset: 0.0885											
5:17:11 PM		Zn		213.856		1,081.77		846.82		234.96					
5:17:14 PM		Zn		213.856		1,082.88		916.10		166.77					
5:17:16 PM		Zn		213.856		1,104.77		901.24		203.54					
[Zn] = mg/l		Offset: -0.0154													
5:17:24 PM		Pb		220.353		14,453.62		14,240.85		212.77		-19.63 X		-19.63 X	
5:17:32 PM		Pb		220.353		14,340.82		13,905.41		435.41		-14.93 X		-14.93 X	
5:17:39 PM		Pb		220.353		14,580.94		14,050.19		530.76		-12.93 X		-12.93 X	
[Pb] = -15.83 X µg/l		RSD: 21		Offset: 0.0641											
5:17:43 PM		Ni		221.647		14,375.19		14,141.44		233.75		-0.02 X		-0.02 X	
5:17:48 PM		Ni		221.647		14,145.60		14,200.65		-55.05		-0.02 X		-0.02 X	
5:17:53 PM		Ni		221.647		14,390.99		13,522.96		868.03		-0.01 X		-0.01 X	
[Ni] = -0.02 X mg/l		RSD: 10		Offset: 0.0642											
5:17:59 PM		Cd		228.802		15,738.75		14,958.89		779.86		-0.01 X		-0.01 X	
5:18:04 PM		Cd		228.802		16,225.52		15,494.34		731.18		-0.01 X		-0.01 X	
5:18:10 PM		Cd		228.802		15,969.34		15,385.00		584.34		-0.01 X		-0.01 X	
[Cd] = -0.01 X mg/l		RSD: 1.		Offset: -0.0033											
5:18:14 PM		Mn		257.610		6,525.51		6,270.83		254.68		-0.05 X		-0.05 X	
5:18:17 PM		Mn		257.610		6,002.05		5,965.48		36.58		-0.05 X		-0.05 X	
5:18:20 PM		Mn		257.610		6,153.27		6,199.18		-45.91		-0.05 X		-0.05 X	
[Mn] = -0.05 X mg/l		RSD: 0.		Offset: -0.0279											
5:18:24 PM		Ar		404.442		102,257.54				102,257.54					
5:18:26 PM		Ar		404.442		102,093.88				102,093.88					
5:18:27 PM		Ar		404.442		101,204.62				101,204.62					
[Ar] = mg/l		Offset: 0.0396													
Measurement parameters		Plasma PL1		Method:		072010-testpreshtdown1000W		Pump Speed: 0		Nebulizer Flow: 0.07		Sheath IG1		DateTim ##### Power: 1000	

[illegible]

Name:	0.100ppm	Type:	Calibration	#: 6	Rack:	3 Tube:	12 Weight:	Volume:	Dilution:
WaveLength Calibration =>	Element C	Ref.:	193.026	Calc.:	193.0260	Offset:	-0.0936		
3:59:43 PM	Cr	205.552	35,426.23			35,426.23			
3:59:44 PM	Cr	205.552	38,822.28			38,822.28			
3:59:46 PM	Cr	205.552	38,018.54			38,018.54			
=	37 422.3	RSD: 4.74%	Offset: -0.0546						
3:59:48 PM	Pb	220.353	438,982.56			438,982.56			
3:59:49 PM	Pb	220.353	433,618.97			433,618.97			
3:59:51 PM	Pb	220.353	447,860.44			447,860.44			
=	440 153	RSD: 1.63%	Offset: 0.0641						
3:59:53 PM	Ni	221.647	362,473.97			362,473.97			
3:59:54 PM	Ni	221.647	357,836.41			357,836.41			
3:59:55 PM	Ni	221.647	358,123.97			358,123.97			
=	359 478	RSD: 0.72%	Offset: 0.0642						
3:59:58 PM	Ti	334.941	357,778.56			357,778.56			
4:00:00 PM	Ti	334.941	351,357.50			351,357.50			
4:00:01 PM	Ti	334.941	356,489.69			356,489.69			
=	355 208	RSD: 0.96%	Offset: 0.0000						
4:00:04 PM	Sr	407.771	5,341,926.88			5,341,926.88			
4:00:05 PM	Sr	407.771	5,250,213.75			5,250,213.75			
4:00:06 PM	Sr	407.771	5,225,016.56			5,225,016.56			
=	5 272 36	RSD: 1.17%	Offset: 0.0000						
Name:	1ppm	Type:	Calibration	#: 7	Rack:	3 Tube:	16 Weight:	Volume:	Dilution:
WaveLength Calibration =>	Element C	Ref.:	193.026	Calc.:	193.0260	Offset:	-0.0933		
4:02:22 PM	Cr	205.552	40,662.51			40,662.51			
4:02:23 PM	Cr	205.552	41,604.80			41,604.80			
4:02:25 PM	Cr	205.552	46,073.80			46,073.80			
=	42 780.3	RSD: 6.76%	Offset: -0.0546						
4:02:27 PM	Pb	220.353	990,608.00			990,608.00			
4:02:28 PM	Pb	220.353	1,075,522.75			1,075,522.75			
4:02:30 PM	Pb	220.353	1,205,618.13			1,205,618.13			
=	1 090 58	RSD: 9.93%	Offset: 0.0641						
4:02:32 PM	Ni	221.647	1,299,925.00			1,299,925.00			
4:02:33 PM	Ni	221.647	1,333,983.63			1,333,983.63			
4:02:34 PM	Ni	221.647	1,358,748.00			1,358,748.00			
=	1 330 86	RSD: 2.22%	Offset: 0.0642						
4:02:37 PM	Ti	334.941	1,494,115.25			1,494,115.25			
4:02:39 PM	Ti	334.941	1,495,894.38			1,495,894.38			
4:02:40 PM	Ti	334.941	1,496,078.25			1,496,078.25			
=	1 495 36	RSD: 0.07%	Offset: 0.0000						
4:02:43 PM	Sr	407.771	15,864,372.50			15,864,372.50			
4:02:44 PM	Sr	407.771	15,744,378.75			15,744,378.75			
4:02:45 PM	Sr	407.771	15,496,270.00			15,496,270.00			
=	15 701 6	RSD: 1.20%	Offset: 0.0000						
Name:	10ppm	Type:	Calibration	#: 8	Rack:	3 Tube:	20 Weight:	Volume:	Dilution:
WaveLength Calibration =>	Element C	Ref.:	193.026	Calc.:	193.0260	Offset:	-0.0934		
4:05:01 PM	Cr	205.552	146,709.72			146,709.72			
4:05:02 PM	Cr	205.552	152,662.94			152,662.94			
4:05:04 PM	Cr	205.552	155,468.88			155,468.88			
=	151 613	RSD: 2.95%	Offset: -0.0546						

[illegible]



4:12:00 PM	Ni	221.647	21,552.03			21,552.03	-0.12 X	-0.12 X				
4:12:02 PM	Ni	221.647	21,776.90			21,776.90	-0.12 X	-0.12 X				
4:12:03 PM	Ni	221.647	21,668.24			21,668.24	-0.12 X	-0.12 X				
[Ni] = -0.12 X mg/l		RSD: 0. Offset: 0.0642										
4:12:06 PM	Ti	334.941	17,168.47			17,168.47	-0.07 X	-0.07 X				
4:12:07 PM	Ti	334.941	16,635.50			16,635.50	-0.07 X	-0.07 X				
4:12:09 PM	Ti	334.941	17,938.38			17,938.38	-0.07 X	-0.07 X				
[Ti] = -0.07 X mg/l		RSD: 0. Offset: 0.0000										
4:12:12 PM	Sr	407.771	24,811.29			24,811.29	-0.18 X	-0.18 X				
4:12:13 PM	Sr	407.771	24,756.35			24,756.35	-0.18 X	-0.18 X				
4:12:14 PM	Sr	407.771	24,966.24			24,966.24	-0.18 X	-0.18 X				
[Sr] = -0.18 X mg/l		RSD: 0. Offset: 0.0000										
Name:	kamel	Type:	Analysis	#: 13	Rack:	3 Tube:	40 Weight:	1.0000	Volume:	1.00	Dilution:	1.00
WaveLength Calibration =>	Element C		Ref.:		193.026	Calc.:	193.0260	Offset:	-0.0927			
4:16:14 PM	Cr	205.552	39,911.55			39,911.55	0.46 Q	0.46 Q				
4:16:15 PM	Cr	205.552	39,304.50			39,304.50	0.41 Q	0.41 Q				
4:16:17 PM	Cr	205.552	38,240.90			38,240.90	0.31 Q	0.31 Q				
[Cr] = 0.39 Q mg/l		RSD: 15 Offset: -0.0546										
4:16:19 PM	Pb	220.353	38,930.97			38,930.97	-0.86 X	-0.86 X				
4:16:21 PM	Pb	220.353	38,812.32			38,812.32	-0.86 X	-0.86 X				
4:16:22 PM	Pb	220.353	35,985.06			35,985.06	-0.87 X	-0.87 X				
[Pb] = -0.86 X mg/l		RSD: 0. Offset: 0.0641										
4:16:24 PM	Ni	221.647	22,459.68			22,459.68	-0.12 X	-0.12 X				
4:16:25 PM	Ni	221.647	21,381.23			21,381.23	-0.12 X	-0.12 X				
4:16:27 PM	Ni	221.647	21,951.24			21,951.24	-0.12 X	-0.12 X				
[Ni] = -0.12 X mg/l		RSD: 0. Offset: 0.0642										
4:16:30 PM	Ti	334.941	16,362.77			16,362.77	-0.07 X	-0.07 X				
4:16:31 PM	Ti	334.941	17,081.79			17,081.79	-0.07 X	-0.07 X				
4:16:32 PM	Ti	334.941	16,402.92			16,402.92	-0.07 X	-0.07 X				
[Ti] = -0.07 X mg/l		RSD: 0. Offset: 0.0000										
4:16:35 PM	Sr	407.771	26,045.84			26,045.84	-0.18 X	-0.18 X				
4:16:36 PM	Sr	407.771	26,337.79			26,337.79	-0.18 X	-0.18 X				
4:16:38 PM	Sr	407.771	26,272.46			26,272.46	-0.18 X	-0.18 X				
[Sr] = -0.18 X mg/l		RSD: 0. Offset: 0.0000										
Name:	cowboy	Type:	Analysis	#: 15	Rack:	3 Tube:	44 Weight:	1.0000	Volume:	1.00	Dilution:	1.00
WaveLength Calibration =>	Element C		Ref.:		193.026	Calc.:	193.0260	Offset:	-0.0926			
4:20:39 PM	Cr	205.552	43,158.67			43,158.67	0.74 Q	0.74 Q				
4:20:41 PM	Cr	205.552	43,411.02			43,411.02	0.76 Q	0.76 Q				
4:20:42 PM	Cr	205.552	44,663.41			44,663.41	0.86 Q	0.86 Q				
[Cr] = 0.79 Q mg/l		RSD: 8. Offset: -0.0546										
4:20:44 PM	Pb	220.353	40,545.40			40,545.40	-0.86 X	-0.86 X				
4:20:46 PM	Pb	220.353	39,731.41			39,731.41	-0.86 X	-0.86 X				
4:20:47 PM	Pb	220.353	39,437.56			39,437.56	-0.86 X	-0.86 X				
[Pb] = -0.86 X mg/l		RSD: 0. Offset: 0.0641										
4:20:49 PM	Ni	221.647	24,339.59			24,339.59	-0.12 X	-0.12 X				
4:20:50 PM	Ni	221.647	24,268.29			24,268.29	-0.12 X	-0.12 X				
4:20:52 PM	Ni	221.647	24,417.98			24,417.98	-0.12 X	-0.12 X				
[Ni] = -0.12 X mg/l		RSD: 0. Offset: 0.0642										
4:20:55 PM	Ti	334.941	15,743.45			15,743.45	-0.07 X	-0.07 X				

	4:20:56 PM	Ti	334.941	15,378.65				15,378.65	-0.07 X	-0.07 X		
	4:20:57 PM	Ti	334.941	15,661.75				15,661.75	-0.07 X	-0.07 X		
[ Ti ] = -0.07 X mg/l		RSD: 0. Offset: 0.0000										
	4:21:00 PM	Sr	407.771	27,191.22				27,191.22	-0.18 X	-0.18 X		
	4:21:01 PM	Sr	407.771	27,351.23				27,351.23	-0.18 X	-0.18 X		
	4:21:03 PM	Sr	407.771	27,978.88				27,978.88	-0.18 X	-0.18 X		
[ Sr ] = -0.18 X mg/l		RSD: 0. Offset: 0.0000										
Name:	rinse	Type:	Analysis	#: 17	Rack:	4 Tube:	1 Weight:	1.0000	Volume:	1.00	Dilution:	1.00
WaveLength Calibration ==>		Element C	Ref.:	193.026	Calc.:	193.0260	Offset:	-0.0923				
	4:24:48 PM	Cr	205.552	37,251.09				37,251.09	0.23 <	0.23 <		
	4:24:50 PM	Cr	205.552	39,752.87				39,752.87	0.44 Q	0.44 Q		
	4:24:51 PM	Cr	205.552	38,355.13				38,355.13	0.32 Q	0.32 Q		
[ Cr ] = 0.33 Q mg/l		RSD: 32 Offset: -0.0546										
	4:24:54 PM	Pb	220.353	41,911.08				41,911.08	-0.85 X	-0.85 X		
	4:24:55 PM	Pb	220.353	43,063.01				43,063.01	-0.85 X	-0.85 X		
	4:24:56 PM	Pb	220.353	43,594.49				43,594.49	-0.85 X	-0.85 X		
[ Pb ] = -0.85 X mg/l		RSD: 0. Offset: 0.0641										
	4:24:58 PM	Ni	221.647	22,265.12				22,265.12	-0.12 X	-0.12 X		
	4:25:00 PM	Ni	221.647	22,067.41				22,067.41	-0.12 X	-0.12 X		
	4:25:01 PM	Ni	221.647	21,182.02				21,182.02	-0.12 X	-0.12 X		
[ Ni ] = -0.12 X mg/l		RSD: 0. Offset: 0.0642										
	4:25:04 PM	Ti	334.941	15,717.88				15,717.88	-0.07 X	-0.07 X		
	4:25:05 PM	Ti	334.941	15,694.95				15,694.95	-0.07 X	-0.07 X		
	4:25:06 PM	Ti	334.941	15,813.59				15,813.59	-0.07 X	-0.07 X		
[ Ti ] = -0.07 X mg/l		RSD: 0. Offset: 0.0000										
	4:25:09 PM	Sr	407.771	22,093.23				22,093.23	-0.18 X	-0.18 X		
	4:25:11 PM	Sr	407.771	22,239.25				22,239.25	-0.18 X	-0.18 X		
	4:25:12 PM	Sr	407.771	22,278.01				22,278.01	-0.18 X	-0.18 X		
[ Sr ] = -0.18 X mg/l		RSD: 0. Offset: 0.0000										
Measurement parameters		Plasma PL1	Method:	041911_Pottsele1	Pump Speed:	0	Nebulizer Flow:	0.07	Sheath IG1	DateTim #####	Power:	1100
Review:		Analyst: Bailey	Date:	Visa:								
ICP-Spectroscopy: "ULTIMA-2" Nr.: 0.0.0.0.0.												
Measurement parameters		Analysis report from: 19.04.2011	Run: 041911_tobacco1									
		Plasma PL1	Method:	041911Pottsele2	Pump Speed:	0	Nebulizer Flow:	0.06	Sheath IG1	DateTim #####	Power:	1100
Time	EI.	Line	Raw intensity	Bkg. left	Bkg. right	Net intensity	Solution[C]	Sample[C]				
Name:	Oppm	Type:	Calibration	#: 21	Rack:	3 Tube:	1 Weight:	Volume:	Dilution:			
WaveLength Calibration ==>		Element C	Ref.:	193.026	Calc.:	193.0260	Offset:	-0.0920				
	4:41:02 PM	Zn	213.856	4,914.14				4,914.14				
	4:41:03 PM	Zn	213.856	4,841.92				4,841.92				
	4:41:04 PM	Zn	213.856	4,785.41				4,785.41				
=		4 847.16	RSD: 1.33%	Offset: -0.0154								
	4:41:07 PM	Cd	228.802	5,774.29				5,774.29				
	4:41:08 PM	Cd	228.802	5,921.19				5,921.19				
	4:41:09 PM	Cd	228.802	5,930.02				5,930.02				
=		5 875.17	RSD: 1.49%	Offset: -0.0033								
	4:41:12 PM	Mg	280.270	3,388.67				3,388.67				
	4:41:14 PM	Mg	280.270	3,279.13				3,279.13				
	4:41:15 PM	Mg	280.270	3,156.81				3,156.81				

[illegible]

[illegible]

[illegible]

4:55:41 PM	Zn	213.856	9,607.01				9,607.01	-0.27 X	-0.27 X					
4:55:43 PM	Zn	213.856	9,157.07				9,157.07	-0.27 X	-0.27 X					
[ Zn ] = -0.27 X mg/l		RSD: 0. Offset: -0.0154												
4:55:45 PM	Cd	228.802	6,726.22				6,726.22	-0.14 X	-0.14 X					
4:55:47 PM	Cd	228.802	6,653.46				6,653.46	-0.14 X	-0.14 X					
4:55:48 PM	Cd	228.802	6,523.92				6,523.92	-0.14 X	-0.14 X					
[ Cd ] = -0.14 X mg/l		RSD: 0. Offset: -0.0033												
4:55:51 PM	Mg	280.270	4,782.83				4,782.83	-0.10 X	-0.10 X					
4:55:52 PM	Mg	280.270	4,583.45				4,583.45	-0.10 X	-0.10 X					
4:55:53 PM	Mg	280.270	4,542.85				4,542.85	-0.10 X	-0.10 X					
[ Mg ] = -0.10 X mg/l		RSD: 0. Offset: -0.0566												
4:55:56 PM	Al	308.215	19,039.84				19,039.84	6.26 <	6.26 <					
4:55:57 PM	Al	308.215	20,373.08				20,373.08	18.43 Q	18.43 Q					
4:55:59 PM	Al	308.215	17,581.05				17,581.05	-7.06 X	-7.06 X					
[ Al ] = 5.88 < mg/l		RSD: 21 Offset: 0.0000												
4:56:02 PM	Cu	324.754	27,887.88				27,887.88	-0.10 X	-0.10 X					
4:56:04 PM	Cu	324.754	28,028.76				28,028.76	-0.10 X	-0.10 X					
4:56:05 PM	Cu	324.754	28,248.42				28,248.42	-0.10 X	-0.10 X					
[ Cu ] = -0.10 X mg/l		RSD: 0. Offset: 0.0000												
4:56:08 PM	Ba	455.403	6,719.95				6,719.95	-0.12 X	-0.12 X					
4:56:09 PM	Ba	455.403	6,707.68				6,707.68	-0.12 X	-0.12 X					
4:56:10 PM	Ba	455.403	6,657.75				6,657.75	-0.12 X	-0.12 X					
[ Ba ] = -0.12 X mg/l		RSD: 0. Offset: 0.0000												
Name:	capp	Type:	Analysis	#: 28	Rack:	3	Tube:	36	Weight:	1.0000	Volume:	1.00	Dilution:	1.00
WaveLength Calibration =>	Element	C	Ref.:		193.026	Calc.:	193.0260	Offset:	-0.0924					
4:58:44 PM	Zn	213.856	7,376.87				7,376.87	-0.28 X	-0.28 X					
4:58:46 PM	Zn	213.856	7,165.48				7,165.48	-0.28 X	-0.28 X					
4:58:47 PM	Zn	213.856	7,203.88				7,203.88	-0.28 X	-0.28 X					
[ Zn ] = -0.28 X mg/l		RSD: 0. Offset: -0.0154												
4:58:49 PM	Cd	228.802	5,599.64				5,599.64	-0.14 X	-0.14 X					
4:58:51 PM	Cd	228.802	5,537.02				5,537.02	-0.14 X	-0.14 X					
4:58:52 PM	Cd	228.802	5,566.87				5,566.87	-0.14 X	-0.14 X					
[ Cd ] = -0.14 X mg/l		RSD: 0. Offset: -0.0033												
4:58:55 PM	Mg	280.270	9,780.31				9,780.31	-0.10 X	-0.10 X					
4:58:56 PM	Mg	280.270	10,093.00				10,093.00	-0.10 X	-0.10 X					
4:58:58 PM	Mg	280.270	9,932.95				9,932.95	-0.10 X	-0.10 X					
[ Mg ] = -0.10 X mg/l		RSD: 0. Offset: -0.0566												
4:59:00 PM	Al	308.215	18,763.80				18,763.80	3.74 <	3.74 <					
4:59:02 PM	Al	308.215	18,039.11				18,039.11	-2.87 X	-2.87 X					
4:59:03 PM	Al	308.215	18,317.90				18,317.90	-0.33 X	-0.33 X					
[ Al ] = 0.18 < mg/l		RSD: 1. Offset: 0.0000												
4:59:06 PM	Cu	324.754	30,563.74				30,563.74	-0.10 X	-0.10 X					
4:59:08 PM	Cu	324.754	30,774.03				30,774.03	-0.10 X	-0.10 X					
4:59:09 PM	Cu	324.754	30,556.13				30,556.13	-0.10 X	-0.10 X					
[ Cu ] = -0.10 X mg/l		RSD: 0. Offset: 0.0000												
4:59:12 PM	Ba	455.403	4,705.05				4,705.05	-0.12 X	-0.12 X					
4:59:13 PM	Ba	455.403	4,690.48				4,690.48	-0.12 X	-0.12 X					
4:59:15 PM	Ba	455.403	4,736.06				4,736.06	-0.12 X	-0.12 X					

[ Ba] = -0.12 X mg/l		RSD: 0. Offset: 0.0000													
Name:		kamel	Type:	Analysis	#: 30	Rack:	3	Tube:	40	Weight: 1.0000	Volume: 1.00	Dilution: 1.00			
WaveLength Calibration ==>		Element C	Ref.:	193.026	Calc.:	193.0260	Offset:	-0.0923							
5:03:12 PM	Zn	213.856	36,102.63			36,102.63		-0.24 X	-0.24 X						
5:03:13 PM	Zn	213.856	35,189.71			35,189.71		-0.24 X	-0.24 X						
5:03:14 PM	Zn	213.856	35,523.73			35,523.73		-0.24 X	-0.24 X						
[ Zn] = -0.24 X mg/l		RSD: 0. Offset: -0.0154													
5:03:17 PM	Cd	228.802	6,079.83			6,079.83		-0.14 X	-0.14 X						
5:03:18 PM	Cd	228.802	6,088.27			6,088.27		-0.14 X	-0.14 X						
5:03:19 PM	Cd	228.802	5,983.41			5,983.41		-0.14 X	-0.14 X						
[ Cd] = -0.14 X mg/l		RSD: 0. Offset: -0.0033													
5:03:22 PM	Mg	280.270	187,120.23			187,120.23		0.07	0.07						
5:03:24 PM	Mg	280.270	190,239.72			190,239.72		0.07	0.07						
5:03:25 PM	Mg	280.270	189,037.19			189,037.19		0.07	0.07						
[ Mg] = 0.07 mg/l		RSD: 2. Offset: -0.0566													
5:03:28 PM	Al	308.215	18,871.04			18,871.04		4.72 <	4.72 <						
5:03:29 PM	Al	308.215	17,147.93			17,147.93		-11.01 X	-11.01 X						
5:03:30 PM	Al	308.215	17,846.03			17,846.03		-4.64 X	-4.64 X						
[ Al] = -3.64 X mg/l		RSD: 21 Offset: 0.0000													
5:03:34 PM	Cu	324.754	40,399.64			40,399.64		-0.09 X	-0.09 X						
5:03:35 PM	Cu	324.754	40,824.80			40,824.80		-0.09 X	-0.09 X						
5:03:37 PM	Cu	324.754	40,371.84			40,371.84		-0.09 X	-0.09 X						
[ Cu] = -0.09 X mg/l		RSD: 0. Offset: 0.0000													
5:03:39 PM	Ba	455.403	7,095.42			7,095.42		-0.12 X	-0.12 X						
5:03:41 PM	Ba	455.403	7,068.27			7,068.27		-0.12 X	-0.12 X						
5:03:42 PM	Ba	455.403	7,246.05			7,246.05		-0.12 X	-0.12 X						
[ Ba] = -0.12 X mg/l		RSD: 0. Offset: 0.0000													
Name:		cowboy	Type:	Analysis	#: 32	Rack:	3	Tube:	44	Weight: 1.0000	Volume: 1.00	Dilution: 1.00			
WaveLength Calibration ==>		Element C	Ref.:	193.026	Calc.:	193.0260	Offset:	-0.0918							
5:07:48 PM	Zn	213.856	10,333.89			10,333.89		-0.27 X	-0.27 X						
5:07:49 PM	Zn	213.856	10,552.57			10,552.57		-0.27 X	-0.27 X						
5:07:50 PM	Zn	213.856	10,656.34			10,656.34		-0.27 X	-0.27 X						
[ Zn] = -0.27 X mg/l		RSD: 0. Offset: -0.0154													
5:07:53 PM	Cd	228.802	6,173.36			6,173.36		-0.14 X	-0.14 X						
5:07:54 PM	Cd	228.802	6,015.69			6,015.69		-0.14 X	-0.14 X						
5:07:56 PM	Cd	228.802	6,297.14			6,297.14		-0.14 X	-0.14 X						
[ Cd] = -0.14 X mg/l		RSD: 0. Offset: -0.0033													
5:07:58 PM	Mg	280.270	129,998.49			129,998.49		0.02 Q	0.02 Q						
5:08:00 PM	Mg	280.270	130,665.12			130,665.12		0.02 Q	0.02 Q						
5:08:01 PM	Mg	280.270	131,576.27			131,576.27		0.02 Q	0.02 Q						
[ Mg] = 0.02 Q mg/l		RSD: 4. Offset: -0.0566													
5:08:04 PM	Al	308.215	18,680.36			18,680.36		2.98 <	2.98 <						
5:08:05 PM	Al	308.215	18,266.95			18,266.95		-0.80 X	-0.80 X						
5:08:06 PM	Al	308.215	17,801.39			17,801.39		-5.04 X	-5.04 X						
[ Al] = -0.95 X mg/l		RSD: 42 Offset: 0.0000													
5:08:10 PM	Cu	324.754	32,046.54			32,046.54		-0.10 X	-0.10 X						
5:08:11 PM	Cu	324.754	33,235.58			33,235.58		-0.10 X	-0.10 X						
5:08:13 PM	Cu	324.754	32,941.42			32,941.42		-0.10 X	-0.10 X						
[ Cu] = -0.10 X mg/l		RSD: 0. Offset: 0.0000													

[illegible]



**Potts, Gretchen**

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**From:** VEPPPO, Inc Store [info@veppocig.com]  
**Sent:** Monday, May 09, 2011 11:25 AM  
**To:** Potts, Gretchen  
**Subject:** Thanks for Registering at VEPPPO, Inc Store

## Thanks for Registering at VEPPPO, Inc Store

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Hi Gretchen,

Thank you for creating your account at VEPPPO, Inc Store. Your account details are as follows:

**Email Address:** [gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

**Password:** [REDACTED]

To sign in to your account, please visit <https://www.veppocig.com/account.php> or [click here](#).

If you have any questions regarding your account, click 'Reply' in your email client and we'll be only too happy to help.

**VEPPPO, Inc Store**

<http://www.veppocig.com>

1-888-566-1836

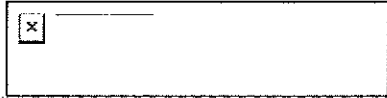
VeppoCig.com

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VEPPPO, Inc Store

## Potts, Gretchen

**From:** VEPPPO, Inc Store [info@veppocig.com]  
**Sent:** Monday, May 09, 2011 11:28 AM  
**To:** Potts, Gretchen  
**Subject:** Your Order From VEPPPO, Inc Store



## Thanks for Your Order!



Your order ID is #7727. A summary of your order is shown below. To view the status of your order [click here](#).

### Shipping Address

Gretchen Potts  
615 McCalle Ave, #2252  
Chattanooga, Tennessee 37403  
United States  
423-425-5296

### Billing Address

Gretchen Potts  
615 McCalle Ave, #2252  
Chattanooga, Tennessee 37403  
United States  
423-425-5296

### Your Order Contains...

Cart Items	SKU	Qty	Item Price	Item Total
<b>E liquid Nicotine Camel like</b> <b>Flavor</b> (Nicotine Strength: Extra High - 24 mg) (Nicotine Strength: Extra High - 24 mg)	E-liquid Nicotine - Camel 30ml	1	\$28.99 USD	\$28.99 USD
<b>E liquid Nicotine Green Tea</b> <b>Flavor</b> (Nicotine Strength: Med - 11 mg) (Nicotine Strength: Med - 11 mg)	E-liquid Nicotine - Green Tea 30ml	1	\$28.99 USD	\$28.99 USD
<b>E liquid Nicotine Marlboro like</b> <b>Flavor</b> (Nicotine Strength: Extra High - 24 mg) (Nicotine Strength: Extra High - 24 mg)	E-liquid Nicotine - Marlboro 30ml	1	\$28.99 USD	\$28.99 USD
<b>Veppo Disposable Electronic</b> <b>Cigarette Tobacco</b> (Nicotine Strength: Super High - 36 mg) (Nicotine Strength: Super High - 36 mg)	Veppo Disp Ecig Tobacco	1	\$13.99 USD	\$13.99 USD

**Subtotal:** \$100.96 USD  
**Shipping:** \$5.00 USD  
**Grand Total:** \$105.96 USD

**Potts, Gretchen**

---

**From:** ccarroll@timesfreepress.com  
**Sent:** Friday, May 13, 2011 4:24 PM  
**To:** Potts, Gretchen  
**Subject:** Re: All righty ...

No, Katie's research will be featured in the story, but majority focus will be on e-cigarettes, per editors' interests.

-----Original Message-----

**From:** Potts, Gretchen  
**To:** Carroll, Chris  
**Subject:** RE: All righty ...  
**Sent:** May 13, 2011 4:16 PM

Chris,

I sent a reply to this, but my computer crashed and I can't see if it actually got sent. I noticed that you mentioned an altered angle/play on the story. Does that mean that Katie's research/picture will no longer be a part of the story?

Thanks,  
Gretchen

---

**From:** Carroll, Chris [ccarroll@timesfreepress.com]  
**Sent:** Friday, May 13, 2011 2:29 PM  
**To:** Potts, Gretchen  
**Subject:** All righty ...

Photography staff will check and see if we have e-cig shots that will fit the altered angle/play of the story. If not, same drill as yesterday - a photographer will meet you in your office at 1 pm Monday. I'll let you know as soon as I know whether he/she will be there, or if we've already got what we need.

Thanks, and have a good weekend!

Chris

Sent from my Verizon Wireless BlackBerry

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Thursday, May 12, 2011 11:28 AM  
**To:** tnovotny@mail.sdsu.edu  
**Cc:** 'Carroll, Chris'  
**Subject:** Heads-up

Tom,

Just a heads-up, I was interviewed by a Chattanooga newspaper reporter today and I gave him your name. He may contact you asking for a quote about butts and litter. I gave him a copy of your editorial from the supplement. His name is Chris Carroll and he is with the Times Free Press. I have copied him on this email.

We have two projects this summer: pea plants grown with butts and full cigarettes (unsmoked) and also e-cigarettes (organics and metals when smoked). Since the cost of a smoking machine was too great, we built an economy one out of a squirt bottle and some tubing. Works well!

Hope all is well at SDSU!  
Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Monday, May 16, 2011 12:17 PM  
**To:** 'ccarroll@timesfreepress.com'  
**Subject:** article

Chris,

Was there any science that you wanted me to look over in the article. After John takes pictures today, I am headed home, but I will have access to email. Just let me know.

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

**Potts, Gretchen**

---

**From:** Dana Woody [d\_woody@theconciergeoofficesuites.com]  
**Sent:** Tuesday, May 17, 2011 10:13 AM  
**To:** Potts, Gretchen  
**Subject:** Article question

Great study and glad to see the article. Was just wondering if you test the cotton balls for chemicals before they are placed in the bottles since even "organic" cotton could have been subjected to chemicals... Look forward to hearing the results of the study.

Dana Woody

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Wednesday, May 18, 2011 8:18 AM  
**To:** Tolar, Nancy  
**Subject:** RE: URP Research at UTC--MSNBC too!

Thanks Nancy!

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

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FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** Tolar, Nancy  
**Sent:** Tuesday, May 17, 2011 2:46 PM  
**To:** Rybolt, Tom; [cole-smith@mocs.utc.edu](mailto:cole-smith@mocs.utc.edu); [tfs326@mocs.utc.edu](mailto:tfs326@mocs.utc.edu); [hanna-fogg@mocs.utc.edu](mailto:hanna-fogg@mocs.utc.edu); [Ashley-Cardenal@mocs.utc.edu](mailto:Ashley-Cardenal@mocs.utc.edu); [Katherine-Thurman@mocs.utc.edu](mailto:Katherine-Thurman@mocs.utc.edu); [Amy-Balestrino@mocs.utc.edu](mailto:Amy-Balestrino@mocs.utc.edu); [Chris-Cho@utc.edu](mailto:Chris-Cho@utc.edu); Son, Jae Hun; Werlein, Ashley A; [Zachary-Perry@mocs.utc.edu](mailto:Zachary-Perry@mocs.utc.edu); Colangione, David Joseph; Vashi, Hitesh V  
**Cc:** Kutz, H Douglas; Grant, Gregory J; Potts, Gretchen; Hamilton, Harriet Wall; Narramore, Jim; Kim, Jisook; Lynch, John A; Knight, Kyle S; Mebane, Robert C; [Steven-Symes@utc.edu](mailto:Steven-Symes@utc.edu); Meyer, Gail; Santiago, Manuel; [John-Lee@utc.edu](mailto:John-Lee@utc.edu); Whitson, Stefanie R; Colangione, David Joseph; Vashi, Hitesh V  
**Subject:** RE: URP Research at UTC--MSNBC too!

MSNBC has picked up the story as well. Go to [www.msnbc.msn.com](http://www.msnbc.msn.com) and you'll see the story there.

Nancy

---

**From:** Rybolt, Tom  
**Sent:** Tuesday, May 17, 2011 11:34 AM  
**To:** [cole-smith@mocs.utc.edu](mailto:cole-smith@mocs.utc.edu); [tfs326@mocs.utc.edu](mailto:tfs326@mocs.utc.edu); [hanna-fogg@mocs.utc.edu](mailto:hanna-fogg@mocs.utc.edu); [Ashley-Cardenal@mocs.utc.edu](mailto:Ashley-Cardenal@mocs.utc.edu); [Katherine-Thurman@mocs.utc.edu](mailto:Katherine-Thurman@mocs.utc.edu); [Amy-Balestrino@mocs.utc.edu](mailto:Amy-Balestrino@mocs.utc.edu); [Chris-Cho@utc.edu](mailto:Chris-Cho@utc.edu); [CKX294@MOCS.UTC.EDU](mailto:CKX294@MOCS.UTC.EDU); [kmk628@mocs.utc.edu](mailto:kmk628@mocs.utc.edu); [Zachary-Perry@mocs.utc.edu](mailto:Zachary-Perry@mocs.utc.edu); [ntc481@mocs.utc.edu](mailto:ntc481@mocs.utc.edu); [btp128@mocs.utc.edu](mailto:btp128@mocs.utc.edu)  
**Cc:** Kutz, H Douglas; Grant, Gregory J; Potts, Gretchen; Hamilton, Harriet Wall; Narramore, Jim; Kim, Jisook; Lynch, John A; Knight, Kyle S; Tolar, Nancy; Mebane, Robert C; [Steven-Symes@utc.edu](mailto:Steven-Symes@utc.edu); Rybolt, Tom; Meyer, Gail; Santiago, Manuel; [John-Lee@utc.edu](mailto:John-Lee@utc.edu); Whitson, Stefanie R; [ntc481@mocs.utc.edu](mailto:ntc481@mocs.utc.edu); [BTP128@mocs.utc.edu](mailto:BTP128@mocs.utc.edu)  
**Subject:** URP Research at UTC

This subject heading may make more sense - TR

URP and Dept

Those of you who do not normally see the Chattanooga paper may be interested to see Amy Balestrino and Katie Thurman featured for their work with Dr. Potts.

See websites below for front page article about the research of Dr. Gretchen Potts and her two current UTC Chemistry undergraduate research students regarding (1) organic compounds released from new electronic cigarettes and (2) metals released from conventional cigarette butts and possible plant uptake.

See

<http://www.timesfreepress.com/> from 5/15/2011

Or

<http://www.timesfreepress.com/news/2011/may/17/smoke-and-mirrors-utc-student-finding-out-whats-e-/>

Congratulations,

Tom Rybolt

Dr. Tom Rybolt, UC Foundation Professor and Head  
Department of Chemistry Dept 2252  
University of Tennessee—Chattanooga  
Chattanooga, TN 37403  
<http://www.utc.edu/Chemistry/> (423) 425-4278

UTC dept of Chemistry "*offering a molecular perspective*"  
2011 is UN designated International Year of Chemistry [www.acs.org/iyc2011](http://www.acs.org/iyc2011)



**Potts, Gretchen**

---

**From:** vxm473@mocs.utc.edu  
**Sent:** Wednesday, May 18, 2011 8:19 AM  
**To:** Potts, Gretchen  
**Subject:** Fw: Your E-cigarettes Research

Sent from my BlackBerry® powered by Virgin Mobile.

---

**From:** "Harricharran, Shandy" <[Shandy.Harricharran@jti.com](mailto:Shandy.Harricharran@jti.com)>  
**Date:** Tue, 17 May 2011 13:14:16 -0400  
**To:** <[Amy-Balestrino@mocs.utc.edu](mailto:Amy-Balestrino@mocs.utc.edu)>  
**Subject:** Your E-cigarettes Research

Hi Amy,

I recently read an article discussing your research into e-cigarettes. Your novel approach to collecting the smoke condensate is impressive. Have you collected any publishable data from your results? If not, will you be making your findings public once you do?

Regards,

**Shandy Harricharran**  
Scientific and Regulatory Affairs Manager, Americas  
JTI-Macdonald Corp.  
Tel: 905-804-7451  
Cell: 647-248-0481  
[shandy.harricharran@jti.com](mailto:shandy.harricharran@jti.com)

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Wednesday, May 18, 2011 8:22 AM  
**To:** 'Shandy.Harricharran@jti.com'  
**Subject:** RE: Your E-cigarettes Research

Ms. Harricharran,

I received your email from my research student, Amy Balestrino. This project is just in the initial stages. Amy will be writing a honors thesis and defending it next Spring. After that point, we will most likely be looking at publishing it in a peer-reviewed journal.

Thank you for your interest,  
Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296

FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>

[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** [vxm473@mocs.utc.edu](mailto:vxm473@mocs.utc.edu) [<mailto:vxm473@mocs.utc.edu>]

**Sent:** Wednesday, May 18, 2011 8:19 AM

**To:** Potts, Gretchen

**Subject:** Fw: Your E-cigarettes Research

Sent from my BlackBerry® powered by Virgin Mobile.

---

**From:** "Harricharran, Shandy" <[Shandy.Harricharran@jti.com](mailto:Shandy.Harricharran@jti.com)>

**Date:** Tue, 17 May 2011 13:14:16 -0400

**To:** <[Amy-Balestrino@mocs.utc.edu](mailto:Amy-Balestrino@mocs.utc.edu)>

**Subject:** Your E-cigarettes Research

Hi Amy,

I recently read an article discussing your research into e-cigarettes. Your novel approach to collecting the smoke condensate is impressive. Have you collected any publishable data from your results? If not, will you be making your findings public once you do?

Regards,

**Shandy Harricharran**  
Scientific and Regulatory Affairs Manager, Americas

JTI-Macdonald Corp.  
Tel: 905-804-7451  
Cell: 647-248-0481  
[shandy.harricharran@jti.com](mailto:shandy.harricharran@jti.com)

## Potts, Gretchen

---

From: Potts, Gretchen  
Sent: Wednesday, May 18, 2011 8:23 AM  
To: Meyer, Gail  
Subject: RE: Wow

Thanks!

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

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<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

-----Original Message-----

From: Meyer, Gail  
Sent: Tuesday, May 17, 2011 8:48 AM  
To: Potts, Gretchen  
Subject: Wow

I just saw the paper! I'll bring it when I come in

Gail

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Wednesday, May 18, 2011 8:23 AM  
**To:** 'Dana Woody'  
**Subject:** RE: Article question

Ms. Woody,

Yes, we do analyze the cotton as our "blanks". It gives us a baseline for the study.

Thanks for your interest,  
Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

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<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** Dana Woody [[mailto:d\\_woody@theconciergeoofficesuites.com](mailto:d_woody@theconciergeoofficesuites.com)]  
**Sent:** Tuesday, May 17, 2011 10:13 AM  
**To:** Potts, Gretchen  
**Subject:** Article question

Great study and glad to see the article. Was just wondering if you test the cotton balls for chemicals before they are placed in the bottles since even "organic" cotton could have been subjected to chemicals... Look forward to hearing the results of the study.

Dana Woody

## **Potts, Gretchen**

---

**From:** Potts, Gretchen  
**Sent:** Wednesday, May 18, 2011 8:28 AM  
**To:** tnovotny@mail.sdsu.edu  
**Subject:** Read the comments!

Tom,

Here is a link to the article that was published in our local paper about the research we are doing this summer. I think you would find the comments most revealing.

<http://www.timesfreepress.com/news/2011/may/17/smoke-and-mirrors-utc-student-finding-out-whats-e-/>

Enjoy!  
Gretchen

Gretchen E. Potts, Ph.D.  
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[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

**Potts, Gretchen**

---

**From:** Rybolt, Tom  
**Sent:** Tuesday, May 17, 2011 11:20 AM  
**To:** Herbert Burhenn; Oldham, Philip; Brown, Roger G.  
**Cc:** Potts, Gretchen; Cindy Carroll  
**Subject:** UTC Chem news in the Chattanooga Times

Dean Burhenn, Provost Oldham, and Chancellor Brown

I wanted to share with you the informative front page article about the research of Dr. Gretchen Potts and her two current UTC Chemistry undergraduate research students regarding (1) organic compounds released from new electronic cigarettes and (2) metals released from conventional cigarette butts and possible plant uptake.

See

<http://www.timesfreepress.com/>  
from 5/15/2011

or

<http://www.timesfreepress.com/news/2011/may/17/smoke-and-mirrors-utc-student-finding-out-whats-e-/>

I also wanted to thank Cindy Carroll and University Relations for the job she and they do getting positive UTC news out there to the public.

Regards,

Tom

Dr. Tom Rybolt, UC Foundation Professor and Head  
Department of Chemistry Dept 2252  
University of Tennessee—Chattanooga  
Chattanooga, TN 37403  
<http://www.utc.edu/Chemistry/> (423) 425-4278

UTC dept of Chemistry *"offering a molecular perspective"*  
2011 is UN designated International Year of Chemistry [www.acs.org/iyc2011](http://www.acs.org/iyc2011)

**VEPPO, Inc Store**  
<http://www.veppocig.com>

1-888-566-1836

VeppoCig.com

---

VEPPO, Inc Store



**Potts, Gretchen**

---

**From:** VEPPPO, Inc Store [info@veppocig.com]  
**Sent:** Tuesday, May 10, 2011 11:24 AM  
**To:** Potts, Gretchen  
**Subject:** Your Order Has Been Updated



## Order Status Changed

---

Hi Gretchen

An order you recently placed on our website has had its status changed.

The status of order #7727 is now **Shipped**

If your order has SHIPPED, you may [track it here](#).

Tracking Number:

- 03082690000033705583 (Regular 3-6 days \$5.00)

### Order Details

**Order Total:** \$105.96 USD  
**Date Placed:** 9th May 2011  
**Payment Method:** Authorize.net

[Click here to view the status of your order](#)

**VEPPO, Inc Store**  
<http://www.veppocig.com>

1-888-566-1836

VeppoCig.com

---

VEPPO, Inc Store

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Monday, May 16, 2011 10:00 AM  
**To:** 'ccarroll@timesfreepress.com'  
**Subject:** RE: John Rawlston coming back to shoot e-cig research / smokingmachine at 1 pm

Ok, just checking.

Thanks,  
Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

-----Original Message-----

**From:** [ccarroll@timesfreepress.com](mailto:ccarroll@timesfreepress.com) [<mailto:ccarroll@timesfreepress.com>]  
**Sent:** Monday, May 16, 2011 9:59 AM  
**To:** Potts, Gretchen  
**Subject:** Re: John Rawlston coming back to shoot e-cig research / smokingmachine at 1 pm

Students using the e-cig smoking machine would be optimal!

-----Original Message-----

**From:** Potts, Gretchen  
**To:** [ccarroll@timesfreepress.com](mailto:ccarroll@timesfreepress.com)  
**Subject:** RE: John Rawlston coming back to shoot e-cig research / smokingmachine at 1 pm  
**Sent:** May 16, 2011 9:45 AM

Thanks! If he wants to come earlier, that is fine too. Does he need the students or is he just taking pictures of the e-cig/smoking machine?

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

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<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Wednesday, May 11, 2011 3:40 PM  
**To:** 'Carroll, Chris'  
**Subject:** RE: Article on Research

Don't get too involved in it...read the intro and the end, I'll explain the in between.

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

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<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

---

**From:** Carroll, Chris [<mailto:ccarroll@timesfreepress.com>]  
**Sent:** Wednesday, May 11, 2011 3:39 PM  
**To:** Potts, Gretchen  
**Subject:** Re: Article on Research

Thanks for sending what promises to be some solid night reading, Dr. Potts.

I'll meet you at your 402 Grote Hall office at 10:30 a.m. (to observe, interview, follow-up, etc.) Photographer will meet you there at 1 p.m. I'm looking forward to it!

Chris

On 5/11/11 3:06 PM, "Potts, Gretchen" <[Gretchen-Potts@utc.edu](mailto:Gretchen-Potts@utc.edu)> wrote:

Chris,

Here is the article that I told you about.

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Friday, May 13, 2011 2:39 PM  
**To:** 'Carroll, Chris'  
**Subject:** RE: All righty ...

No problem. Just drop me email to let me know!

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296

FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

-----Original Message-----

**From:** Carroll, Chris [<mailto:ccarroll@timesfreepress.com>]  
**Sent:** Friday, May 13, 2011 2:30 PM  
**To:** Potts, Gretchen  
**Subject:** All righty ...

Photography staff will check and see if we have e-cig shots that will fit the altered angle/play of the story. If not, same drill as yesterday - a photographer will meet you in your office at 1 pm Monday. I'll let you know as soon as I know whether he/she will be there, or if we've already got what we need.

Thanks, and have a good weekend!

Chris

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Friday, May 13, 2011 4:16 PM  
**To:** Carroll, Chris  
**Subject:** RE: All righty ...

Chris,

I sent a reply to this, but my computer crashed and I can't see if it actually got sent. I noticed that you mentioned an altered angle/play on the story. Does that mean that Katie's research/picture will no longer be a part of the story?

Thanks,  
Gretchen

---

**From:** Carroll, Chris [ccarroll@timesfreepress.com]  
**Sent:** Friday, May 13, 2011 2:29 PM  
**To:** Potts, Gretchen  
**Subject:** All righty ...

Photography staff will check and see if we have e-cig shots that will fit the altered angle/play of the story. If not, same drill as yesterday - a photographer will meet you in your office at 1 pm Monday. I'll let you know as soon as I know whether he/she will be there, or if we've already got what we need.

Thanks, and have a good weekend!

Chris

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Wednesday, May 11, 2011 3:07 PM  
**To:** 'ccarroll@timesfreepress.com'  
**Subject:** Article on Research  
**Attachments:** TobaccoControl\_041911.pdf

Chris,

Here is the article that I told you about.

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
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<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Thursday, May 12, 2011 11:28 AM  
**To:** tnovotny@mail.sdsu.edu  
**Cc:** 'Carroll, Chris'  
**Subject:** Heads-up

Tom,

Just a heads-up, I was interviewed by a Chattanooga newspaper reporter today and I gave him your name. He may contact you asking for a quote about butts and litter. I gave him a copy of your editorial from the supplement. His name is Chris Carroll and he is with the Times Free Press. I have copied him on this email.

We have two projects this summer: pea plants grown with butts and full cigarettes (unsmoked) and also e-cigarettes (organics and metals when smoked). Since the cost of a smoking machine was too great, we built an economy one out of a squirt bottle and some tubing. Works well!

Hope all is well at SDSU!

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296

FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

-----Original Message-----

From: [ccarroll@timesfreepress.com](mailto:ccarroll@timesfreepress.com) [mailto:[ccarroll@timesfreepress.com](mailto:ccarroll@timesfreepress.com)]

Sent: Monday, May 16, 2011 9:35 AM

To: Potts, Gretchen

Subject: John Rawlston coming back to shoot e-cig research / smoking machine at 1 pm

Just a heads-up!

Chris

Sent from my Verizon Wireless BlackBerry

Sent from my Verizon Wireless BlackBerry



## Potts, Gretchen

---

**From:** Potts, Gretchen  
**Sent:** Monday, May 16, 2011 9:46 AM  
**To:** 'ccarroll@timesfreepress.com'  
**Subject:** RE: John Rawlston coming back to shoot e-cig research / smoking machine at 1 pm

Thanks! If he wants to come earlier, that is fine too. Does he need the students or is he just taking pictures of the e-cig/smoking machine?

Gretchen

Gretchen E. Potts, Ph.D.  
UC Fdn Associate Professor  
Department of Chemistry  
The University of Tennessee at Chattanooga  
615 McCallie Ave, #2252  
Chattanooga, TN 37403

Voice: 423-425-5296  
FAX: 423-425-5234

<http://www.utc.edu/Gretchen-Potts>  
[gretchen-potts@utc.edu](mailto:gretchen-potts@utc.edu)

-----Original Message-----

**From:** [ccarroll@timesfreepress.com](mailto:ccarroll@timesfreepress.com) [<mailto:ccarroll@timesfreepress.com>]  
**Sent:** Monday, May 16, 2011 9:35 AM  
**To:** Potts, Gretchen  
**Subject:** John Rawlston coming back to shoot e-cig research / smoking machine at 1 pm

Just a heads-up!

Chris  
Sent from my Verizon Wireless BlackBerry

## Potts, Gretchen

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**From:** Roger Brown [Roger-Brown@utc.edu]  
**Sent:** Tuesday, May 17, 2011 11:27 AM  
**To:** Rybolt, Tom  
**Cc:** Herbert Burhenn; Oldham, Philip; Brown, Roger G.; Potts, Gretchen; Cindy Carroll  
**Subject:** Re: UTC Chem news in the Chattanooga Times

Dear Tom,

I read the article this morning, and it is a wonderful example of the way in which your department engages undergraduates in important research projects. This article also was included in the UT system's digest of news from around the state. Gretchen is a very fine representative of UTC!

Well done!

Roger

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Roger G. Brown, PhD  
Chancellor  
UT Chattanooga  
615 McCallie Ave.  
Chattanooga, TN 37403

(423) 425-4141

On May 17, 2011, at 11:19 AM, "Rybolt, Tom" <Tom-Rybolt@utc.edu> wrote:

Dean Burhenn, Provost Oldham, and Chancellor Brown

I wanted to share with you the informative front page article about the research of Dr. Gretchen Potts and her two current UTC Chemistry undergraduate research students regarding (1) organic compounds released from new electronic cigarettes and (2) metals released from conventional cigarette butts and possible plant uptake.

See

<http://www.timesfreepress.com/>  
from 5/15/2011

or

<http://www.timesfreepress.com/news/2011/may/17/smoke-and-mirrors-utc-student-finding-out-whats-e-/>

I also wanted to thank Cindy Carroll and University Relations for the job she and they do getting positive UTC news out there to the public.

Regards,

Tom

Dr. Tom Rybolt, UC Foundation Professor and Head  
Department of Chemistry Dept 2252  
University of Tennessee—Chattanooga  
Chattanooga, TN 37403  
<http://www.utc.edu/Chemistry/> (423) 425-4278

UTC dept of Chemistry "*offering a molecular perspective*"  
2011 is UN designated International Year of Chemistry [www.acs.org/iyc2011](http://www.acs.org/iyc2011)

## Potts, Gretchen

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**From:** Rybolt, Tom  
**Sent:** Tuesday, May 17, 2011 11:34 AM  
**To:** cole-smith@mocs.utc.edu; tfs326@mocs.utc.edu; hanna-fogg@mocs.utc.edu; Ashley-Cardenal@mocs.utc.edu; Katherine-Thurman@mocs.utc.edu; Amy-Balestrino@mocs.utc.edu; Chris-Cho@utc.edu; CKX294@MOCS.UTC.EDU; kmk628@mocs.utc.edu; Zachary-Perry@mocs.utc.edu; ntc481@mocs.utc.edu; btp128@mocs.utc.edu  
**Cc:** Kutz, H Douglas; Grant, Gregory J; Potts, Gretchen; Hamilton, Harriet Wall; Narramore, Jim; Kim, Jisook; Lynch, John A; Knight, Kyle S; Tolar, Nancy; Mebane, Robert C; Steven-Symes@utc.edu; Rybolt, Tom; Meyer, Gail; Santiago, Manuel; John-Lee@utc.edu; Whitson, Stefanie R; ntc481@mocs.utc.edu; BTP128@mocs.utc.edu  
**Subject:** URP Research at UTC

This subject heading may make more sense - TR

URP and Dept

Those of you who do not normally see the Chattanooga paper may be interested to see Amy Balestrino and Katie Thurman featured for their work with Dr. Potts.

See websites below for front page article about the research of Dr. Gretchen Potts and her two current UTC Chemistry undergraduate research students regarding (1) organic compounds released from new electronic cigarettes and (2) metals released from conventional cigarette butts and possible plant uptake.

See

<http://www.timesfreepress.com/> from 5/15/2011

Or

<http://www.timesfreepress.com/news/2011/may/17/smoke-and-mirrors-utc-student-finding-out-whats-e/>

Congratulations,

Tom Rybolt

Dr. Tom Rybolt, UC Foundation Professor and Head  
Department of Chemistry Dept 2252  
University of Tennessee—Chattanooga  
Chattanooga, TN 37403

<http://www.utc.edu/Chemistry/> (423) 425-4278

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