

East Tennessee Collegiate Division Conference – April 2012
Conference Schedule

9:00- 9:30

**Registration, Lyceum, Walters State Community College,
Morristown, Tennessee**

9:30 - 9:45

**Introduction – Dr. Eugene de Silva; Chair - Physics and Astronomy
Section and Coordinator of Annual and East Tennessee
Conferences, Tennessee Academy of Science.**

**Welcome – Dr. Jeffrey Horner; Dean of Natural Sciences, Walters
State Community College, Tennessee**

9:45 – 12:45

Oral Presentations

12:45 – 12:50

**Vote of Thanks – Dr. Lawrence Kennard, Professor of Chemistry,
Walters State Community College, Tennessee**

12:50 – 1:15

**Lunch - Natural Science Building, Walters State Community
College, Tennessee**

Oral Presentations

Session Times and Titles

<u>Time</u>	<u>Biology</u>
9:45 – 10:00	Genetics of Cancer <i>Daniel Crandell*, Lance Snodderly*, Donald Choate, Stephen Ivy, Jacob Seal, Sara Server, Peter Suich, and Jeff Horner</i> Walters State Community College, Morristown, TN
	<u>Chemistry</u>
10:00 – 10:15	Synthesis of (2S)-(methanesulfonyloxy)propanoyl chloride, a key intermediate in the asymmetric synthesis of naproxen. <i>Kyndal T. Brock* and Lawrence F. Kennard</i> Walters State Community College, Morristown, TN
10:15 - 10:30	Synthesis of N-octylglucamine by a continuous catalytic hydrogenation process. <i>Savannah Hammer* and Lawrence F. Kennard</i> Walters State Community College, Morristown, TN.
10:30 – 10:45	Mechanism of impurity formation in N-octylglucamine chemistry. <i>Ivan C. Haworth* and Lawrence F. Kennard</i> Walters State Community College, Morristown, TN.
10:45 – 11:00	Synthesis of oxfendazole. <i>Abigail L. Horner* and Lawrence F. Kennard</i> Walters State Community College, Morristown, TN
11:00 – 11:15	Large-scale production of naproxen. <i>Paige Hubard* and Lawrence F. Kennard</i> Walters State Community College, Morristown, TN.
11:15 – 11:30	Resolution of R/S-acid with cinchonidine to give S-naproxen. <i>Hillary D. Morgan* and Lawrence F. Kennard</i> Walters State Community College, Morristown, TN.
11:30 – 11:45	Resolution of racemic acids with N-octylglucamine to give S-naproxen. <i>Elisabeth A. Pitt* and Lawrence F. Kennard</i> Walters State Community College, Morristown, TN.

Chemical Engineering

11:45 – 12:00

Process development research on (2S)-(methanesulfonyloxy) propanoyl chloride, a key intermediate in the asymmetric synthesis of naproxen.

Michael G. Jarnagin and Lawrence F. Kennard
Walters State Community College, Morristown, TN.*

Environmental Engineering

12:00 – 12:15

Design of a cost effective scrubber system.

Daniel S. Crandell and Lawrence F. Kennard
Walters State Community College, Morristown, TN.*

History of Science

12:15 – 12:30

The Scientific Method and the Intelligence Community

Eugenie de Silva and Eugene de Silva
*American Military University, Charles Town, WV
Walters State Community College, Morristown, TN*

Psychology

12:30 – 12:45

The Use of Biometrics to Determine Deception

Eugenie de Silva, Eugene de Silva and Waqar Ahmed**
*American Military University, Charles Town, WV
Walters State Community College, Morristown, TN
** University of Central Lancashire, Lancashire, UK*