

2009-2010

**HOUSE
SCIENCE &
TECHNOLOGY**

MINUTES

NORTH CAROLINA GENERAL ASSEMBLY

**SCIENCE AND TECHNOLOGY
2009-2010 SESSION**



Rep. Harrell

Chair



Rep. Avila

Vice-Chair



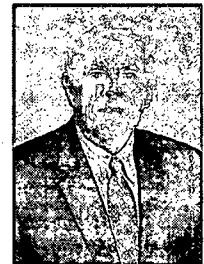
Rep. Gulley

Vice-Chair



Rep. Jones

Vice-Chair



Rep. Tolson

Vice-Chair



Rep. Blue



Rep. England



Rep. Haire



Rep. Hall



Rep. Johnson



Rep. Stevens



Rep. Tillis

HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
2009-2010

<u>MEMBER</u>		<u>ASSISTANT</u>	<u>PHONE</u>	<u>OFFICE</u>	<u>SEAT</u>
Harrell, Ty	Chair	Lara Swanson Committee Assistant	733-5602	2121	108
Avila, Marilyn	Vice-Chair	Susan Lewis	733-5530	1017	112
Gulley, Jim	Vice-Chair	Brian Lehrschall	733-5800	1313	85
Jones, Earl	Vice-Chair	Sherrie Burnette	733-5825	536	80
Tolson, Joe	Vice-Chair	Shirley Phillips	715-3024	307B2	59
Blue, Dan		Barbara McMillan	733-5752	2207	79
England, Bob		Lisa Brown	733-5749	303	5
Haire, Phillip		Sara Jane Lennard	715-3005	639	47
Hall, Larry		Lisa Ray	733-5872	417B	43
Johnson, Linda		Diana Wraight	733-5861	1006	28
Stevens, Sarah		Barbara Stevens	715-1883	509	119
Tillis, Thom		Carol Wakely	733-5828	1002	109

Staff/Counsel

Capriglione, Peter	ISD
Carter, Brenda	Research
Patterson, Bill	Research

North Carolina General Assembly
 Through House Committee on
 Science and Technology

Date: 08/19/2009
 Time: 13:29
 Page: 001 of 002

2009-2010 Biennium

Leg. Day: H-114/S-112

Bill	Introducer	Short Title	Latest Action	In Date	Out Date
\$ H0719	Tolson	GIS IMPLEMENTATION PLAN/FUNDS.	H Re-ref Com On Appropriations	03-23-09	04-01-09
.1085	Glazier	SCI/TECH/ENG/MATH INNOVATION STUDY COMN.	H Ref to the Com on Science and Technology, if favorable, Rules, Calendar, and Operations of the House	04-07-09	
H1125	Insko	REQUIRE PHOTOELECTRIC SMOKE DETECTORS.	H Ref to the Com on Science and Technology, if favorable, Commerce, Small Business, and Entrepreneurship	04-07-09	
H1190	Glazier	PRESERVATION OF DNA & BIOLOGICAL EVIDENCE.	*HR Ch. SL 2009-203	04-08-09	04-23-09
H1252=	Harrell	LEVEL PLAYING FIELD/ CITIES/SERVICE PROVIDERS.	*H Re-ref Com On Rules, Calendar, and Operations of the House	04-09-09	04-23-09
H1261	Mackey	PROTECT OUR KIDS/ CYBER BULLYING MISDEMEANOR.	*H Pres. To Gov. 8/ 11/2009	04-09-09	05-06-09
H1267	Blue	AMEND LIABILITY OF SOCIAL NETWORKING SITES.	*HR Ch. SL 2009-272	04-09-09	05-13-09
H1282	Underhill	CJIN BOARD STUDY AUTOMATED PAWN SYSTEM.	*H Re-ref Com On Appropriations	04-09-09	04-29-09
.1331	Dickson	EDUCATE THE PUBLIC ABOUT CORD BLOOD BANKING.	HR Ch. SL 2009-67	04-09-09	04-29-09
H1381	Jones	INTERNET DEFAMATION.	H Ref to the Com on Science and Technology, if favorable, Judiciary II	04-13-09	
H1438	Spear	VIDEOCONFERENCE TECH. IN COURT PROCEEDINGS.	HR Ch. SL 2009-270	04-13-09	04-29-09
H1448	Wiley	CLARIFY AMBER ALERT LAWS.	H Ref to the Com on Science and Technology, if favorable, Judiciary III	04-13-09	
\$ H1488	Harrell	FUNDING FOR STATE ENTERPRISE E-FORM SOLUTION.	H Re-ref Com On Appropriations	04-13-09	05-06-09
H1489	Harrell	IGNITION INTERLOCK- ALL DWI OFFENDERS.	*H Re-ref Com On Judiciary III	04-13-09	05-13-09
H1497	R. Warren	SPECTRAL FLUORESCENCE SIGNATURE DRUG ANALYSIS.	*H Re-ref Com On Judiciary III	04-13-09	05-13-09
H1574=	Gibson	NC LIFE SCIENCES DEVELOPMENT CORPORATION ACT.	H Ref to the Com on Science and Technology, if	05-05-09	

'\$' indicates the bill is an appropriation bill.

A bold line indicates the bill is an appropriation bill.

'*' indicates that the text of the original bill was changed by some action.

'=' indicates that the original bill is identical to another bill.

North Carolina General Assembly
 Through House Committee on
 Science and Technology

Date: 08/19/2009
 Time: 13:29
 Page: 002 of 002
 Leg. Day: H-114/S-112

2009-2010 Biennium

Bill	Introducer	Short Title	Latest Action	In Date	Out Date
0484=	Daniel G. Clodfe	AUDITOR EX OFFICIO DUTIES.	HR Ch. SL 2009-136 favorable, Finance	05-26-09	06-03-09
0712	Neal Hunt	STATE SURPLUS PROPERTY/ NEW RECIPIENT.	H Re-ref Com On State Government/ State Personnel	04-22-09	05-13-09
S1072	Vernon Malone	ITS COLLABORATION WITH AGENCIES.	*H Ref to the Com on Science and Technology, if favorable, State Government/State Personnel	05-19-09	

'\$' indicates the bill is an appropriation bill.

A bold line indicates the bill is an appropriation bill.

'*' indicates that the text of the original bill was changed by some action.

'=' indicates that the original bill is identical to another bill.

North Carolina General Assembly
 Through House Committee on
 Science and Technology

Date: 07/28/2010
 Time: 08:20
 Page: 001 of 002

2009-2010 Biennium

Leg. Day: H-151/S-148

Bill	Introducer	Short Title	Latest Action	In Date	Out Date
\$ H0719	Tolson	GIS IMPLEMENTATION PLAN/FUNDS.	H Re-ref Com On Appropriations	03-23-09	04-01-09
.085	Glazier	SCI/TECH/ENG/MATH INNOVATION STUDY COMM.	H Ref to the Com on Science and Technology, if favorable, Rules, Calendar, and Operations of the House	04-07-09	
H1125	Insko	REQUIRE PHOTOELECTRIC SMOKE DETECTORS.	H Ref to the Com on Science and Technology, if favorable, Commerce, Small Business, and Entrepreneurship	04-07-09	
H1190	Glazier	PRESERVATION OF DNA & BIOLOGICAL EVIDENCE.	*HR Ch. SL 2009-203	04-08-09	04-23-09
H1252=	Harrell	LEVEL PLAYING FIELD/CITIES/SERVICE PROVIDERS.	*H Re-ref Com On Rules, Calendar, and Operations of the House	04-09-09	04-23-09
H1261	Mackey	PROTECT OUR KIDS/CYBER BULLYING MISDEMEANOR.	*HR Ch. SL 2009-551	04-09-09	05-06-09
H1267	Blue	AMEND LIABILITY OF SOCIAL NETWORKING SITES.	*HR Ch. SL 2009-272	04-09-09	05-13-09
H1282	Underhill	CJIN BOARD STUDY AUTOMATED PAWN SYSTEM.	*H Re-ref Com On Appropriations	04-09-09	04-29-09
.331	Dickson	EDUCATE THE PUBLIC ABOUT CORD BLOOD BANKING.	HR Ch. SL 2009-67	04-09-09	04-29-09
H1381	Jones	INTERNET DEFAMATION.	H Ref to the Com on Science and Technology, if favorable, Judiciary II	04-13-09	
H1438	Spear	VIDEOCONFERENCE TECH. IN COURT PROCEEDINGS.	HR Ch. SL 2009-270	04-13-09	04-29-09
H1448	Wiley	CLARIFY AMBER ALERT LAWS.	H Ref to the Com on Science and Technology, if favorable, Judiciary III	04-13-09	
\$ H1488	Harrell	FUNDING FOR STATE ENTERPRISE E-FORM SOLUTION.	H Re-ref Com On Appropriations	04-13-09	05-06-09
H1489	Harrell	IGNITION INTERLOCK-ALL DWI OFFENDERS.	*H Re-ref Com On Judiciary III	04-13-09	05-13-09
H1497	R. Warren	SPECTRAL FLUORESCENCE SIGNATURE DRUG ANALYSIS.	*H Re-ref Com On Judiciary III	04-13-09	05-13-09
H1574=	Gibson	NC LIFE SCIENCES DEVELOPMENT CORPORATION ACT.	H Ref to the Com on Science and Technology, if	05-05-09	

'\$' indicates the bill is an appropriation bill.

A bold line indicates the bill is an appropriation bill.

'*' indicates that the text of the original bill was changed by some action.

'=' indicates that the original bill is identical to another bill.

North Carolina General Assembly
 Through House Committee on
 Science and Technology

Date: 07/28/2010
 Time: 08:20
 Page: 002 of 002

2009-2010 Biennium

Leg. Day: H-151/S-148

<u>Bill</u>	<u>Introducer</u>	<u>Short Title</u>	<u>Latest Action</u>	<u>In Date</u>	<u>Out Date</u>
.699=	Glazier	EDUCATION CABINET EST. STEM PRIORITY.	H Re-ref Com On favorable, Finance Education	05-13-10	06-09-10
1484=	Daniel G. Clodfe	AUDITOR EX OFFICIO DUTIES.	HR Ch. SL 2009-136	05-26-09	06-03-09
S0712	Neal Hunt	STATE SURPLUS PROPERTY/ NEW RECIPIENT.	H Re-ref Com On State Government/ State Personnel	04-22-09	05-13-09
S1072	Vernon Malone	ITS COLLABORATION WITH AGENCIES.	*H Ref to the Com on Science and Technology, if favorable, State Government/State Personnel	05-19-09	

'\$' indicates the bill is an appropriation bill.

A bold line indicates the bill is an appropriation bill.

'*' indicates that the text of the original bill was changed by some action.

'=' indicates that the original bill is identical to another bill.

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, June 9, 2010

TIME: Immediately after session around the desk of Rep. Earl Jones

The following bills will be considered:

BILL NO.	SHORT TITLE	SPONSOR
HB 1699	Education Cabinet Est. STEM Priority.	Representative Glazier Representative Braxton Representative Yongue

Respectfully,
Representative Jones, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at
10 o'clock on June 09, 2009.

- Principal Clerk
- Reading Clerk – House Chamber

Nancy Goodman (Committee Assistant)

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Jones (Chair) for the Committee on SCIENCE AND TECHNOLOGY.

Committee Substitute for

HB 1699 A BILL TO BE ENTITLED AN ACT TO DIRECT THE EDUCATION CABINET TO SET AS A PRIORITY AN INCREASE IN THE NUMBER OF POSTSECONDARY CREDENTIALS IN THE FIELDS OF SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS AND TO SUPPORT EFFORTS TO ACHIEVE THAT PRIORITY, AS RECOMMENDED BY THE JOINT LEGISLATIVE JOINING OUR BUSINESSES AND SCHOOLS (JOBS) STUDY COMMISSION.

With a favorable report and recommendation that the bill be re-referred to the Committee on EDUCATION.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ The bill/resolution is re-referred to the Committee on _____.

GENERAL ASSEMBLY OF NORTH CAROLINA
SESSION 2009

H

1

HOUSE BILL 1699*

Short Title: Education Cabinet Est. STEM Priority. (Public)

Sponsors: Representatives Glazier, Braxton, Yongue (Primary Sponsors); M. Alexander, Carney, Cotham, Fisher, Harrison, Heagarty, Hughes, Jeffus, Johnson, Jones, Luebke, McLawhorn, Parfitt, Tarleton, Weiss, and Whilden.

Referred to: Science and Technology, if favorable, Education.

May 13, 2010

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35

A BILL TO BE ENTITLED
AN ACT TO DIRECT THE EDUCATION CABINET TO SET AS A PRIORITY AN INCREASE IN THE NUMBER OF POSTSECONDARY CREDENTIALS IN THE FIELDS OF SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS AND TO SUPPORT EFFORTS TO ACHIEVE THAT PRIORITY, AS RECOMMENDED BY THE JOINT LEGISLATIVE JOINING OUR BUSINESSES AND SCHOOLS (JOBS) STUDY COMMISSION.

The General Assembly of North Carolina enacts:

SECTION 1. Chapter 116C of the General Statutes is amended by adding a new section to read:

"G.S. 116C-5. STEM education priorities.

(a) The Education Cabinet shall set as a priority an increase in the number of students earning postsecondary credentials in the fields of science, technology, engineering, and mathematics to reduce the gap between needed credentialed workers and available jobs in those fields by 2015.

(b) The Education Cabinet shall encourage cooperative efforts between secondary schools and institutions of higher education to prepare students for postsecondary study in science, technology, engineering, and mathematics, and shall identify and support efforts at institutions of higher education to increase the number of students seeking and successfully completing postsecondary certificates or degrees in those fields. The Education Cabinet shall monitor progress of those efforts.

(c) The Education Cabinet shall determine measurements for assessing the number of available jobs in the fields of science, technology, engineering, and mathematics in the State, and the number of students earning postsecondary credentials in the fields of science, technology, engineering, and mathematics at all institutions of higher education in the State, including community colleges and both public and private colleges and universities.

(d) The Education Cabinet shall identify federal, State, and local funds that may be used to support this priority. In addition, the Education Cabinet is strongly encouraged to pursue private funds that could be used to support this priority.

(e) The Education Cabinet shall report annually by November 1, 2011, on its activities under this section to the Joint Legislative Education Oversight Committee."

SECTION 2. The Education Cabinet shall report to the Joint Legislative Joining Our Business and Schools (JOBS) Study Commission by November 1, 2011, on measurements established under this section, efforts to reduce the identified gap, and sources of funding to support these efforts.



1

SECTION 3. This act is effective when it becomes law.



HOUSE BILL 1699: Education Cabinet Est. STEM Priority

2009-2010 General Assembly

Committee:	House Science and Technology, if favorable, Education	Date:	May 25, 2010
Introduced by:	Reps. Glazier, Braxton, Yongue	Prepared by:	Brenda J. Carter
Analysis of:	First Edition		Committee Counsel

SUMMARY: *House Bill 1699 directs the Education Cabinet to establish science, technology, engineering, and mathematics (STEM) education priorities. The bill is a recommendation of the Joint Legislative Joining Our Businesses and Schools (JOBS) Study Commission.*

[As introduced, this bill was identical to S1198, as introduced by Sen. Swindell, which is currently in Senate Education/Higher Education.]

CURRENT LAW: The Education Cabinet is a nonvoting body consisting of the Governor (who serves as chair), the President of The University of North Carolina, the State Superintendent of Public Instruction, the Chairman of the State Board of Education, the President of the North Carolina Community Colleges System, the Secretary of Health and Human Services, and the President of the North Carolina Independent Colleges and Universities. The Education Cabinet performs the following statutory duties:

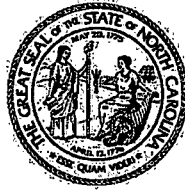
- (1) Works to resolve issues between existing providers of education.
- (2) Sets the agenda for the State Education Commission.
- (3) Develops a strategic design for a continuum of education programs,
- (4) Studies other issues referred to it by the Governor or the General Assembly.

BILL ANALYSIS: Section 1 of the bill amends the statutes pertaining to the Education Cabinet by adding a new section directing the Cabinet to establish education priorities that focus on increasing the number of students earning postsecondary credentials in the fields of science, technology, engineering, and mathematics (STEM). The goal is to reduce the gap between needed credentialed workers and available jobs in those fields by 2015. The Cabinet is directed to encourage cooperative efforts between secondary schools and institutions of higher education to prepare students for postsecondary study in STEM fields and to increase the number of students seeking and successfully completing certificates or degrees in those fields. The Cabinet is also directed to determine measurements for assessing the number of available jobs in STEM fields in the State and the number of students earning credentials in those fields at all community colleges and institutions of higher education in the State. In addition, the Cabinet is directed to identify federal State and local funds that may be used to support STEM education priorities. The bill would require the Education Cabinet to report annually to the Joint Legislative Education Oversight Committee beginning November 1, 2011, on its activities with regard to STEM education priorities.

Section 2 of the bill directs the Education Cabinet to report on its activities and measurements with regard to STEM education priorities to the Joint Legislative Joining Our Businesses and Schools (JOBS) Study Commission by November 1, 2011.

EFFECTIVE DATE: The bill would be effective when it becomes law.

H1699-SMRV-122(e1) v1



North Carolina General Assembly
House Committee on Science & Technology

Minutes

June 9, 2010

The House Committee on Science and Technology met immediately after session around the chamber desk of the Chair, Representative Earl Jones.

The following members were present: Chairperson Earl Jones; Representatives Marilyn Avila and Joe Tolson, Vice-Chairs; and Representatives Bob England, Larry Hall, Chris Heagarty, Linda Johnson, Sarah Steven and Thom Tillis. Brenda Carter, staff for the committee, was also present.

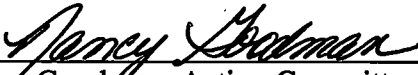
The Chair placed House Bill 1699 before the committee, A BILL TO BE ENTITLED AN ACT TO DIRECT THE EDUCATION CABINET TO SET AS A PRIORITY AN INCREASE IN THE NUMBER OF POSTSECONDARY CREDENTIALS IN THE FIELDS OF SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS AND TO SUPPORT EFFORTS TO ACHIEVE THAT PRIORITY, AS RECOMMENDED BY THE JOINT LEGISLATIVE JOINING OUR BUSINESSES AND SCHOOLS (JOBS) STUDY COMMISSION.

Representative Glazier, the bill sponsor, explained the bill.

After discussion, Representative Linda Johnson moved for a favorable report and recommendation that the bill be re-referred to the Committee on Education.

There being no further business, the meeting adjourned at 4:05 p.m.

Representative Earl Jones


Nancy Goodman, Acting Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

CORRECTED NOTICE

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, February 25, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS: No bills to be heard

Presentations by:

- * Time Warner Cable
- * Epic Games
- * Electronic Arts
- * Destineer Studios
- * NCTIES (NORTH CAROLINA TECHNOLOGY IN EDUCATION SOCIETY)

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at 9 o'clock on **February 24, 2009**.

- Principal Clerk
- Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, February 25, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Presentations:

- * Time Warner Cable
Jack Stanley, Vice President
- * Epic Games
Dana Cowley, Public Relations Manager
- * Electronic Arts
Ryan Stradling, Sr. Development Director
- * Destineer Studios
John Farnsworth, Studio Director
- * NCTIES (North Carolina Technology In Education Society)
Nancy Sands, Past President and Legislative Contact
Ellen Mintor, Vice President

Adjournment

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, February 25, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, February 25, 2009 in room 425LOB at 11:03AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Gulley, Jones and Tolson, Vice-Chairs; and Representatives Haire, Hall, Johnson, Stevens and Tillis.

The Chair called the meeting to order and recognized the Pages and Sargent-at-Arms. He then asked committee members to introduce themselves. Next, the Chair called upon the following individuals to provide overviews of their respective organizations:

Jack Stanley, Vice President, Time Warner Cable

Dana Cowley, Public Relations Manager, Epic Games

Ryan Stradling, Sr. Development Director, Electronic Arts

John Farnsworth, Studio Director, Destineer Studios

Nancy Sands, Past President and Legislative Contact, North Carolina Technology In Education Society (NCTIES)

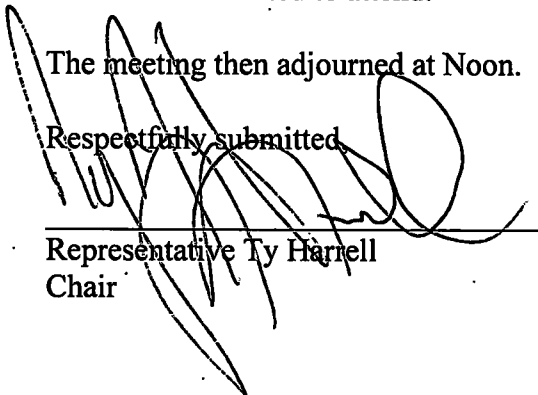
Ellen Mintor, Vice President, North Carolina Technology In Education Society (NCTIES)

The Chair called upon Elizabeth Dalton, lobbyist, Retail Merchants Association, to provide additional information about her clients, Epic Games, Electronic Arts and Destineer Studios.

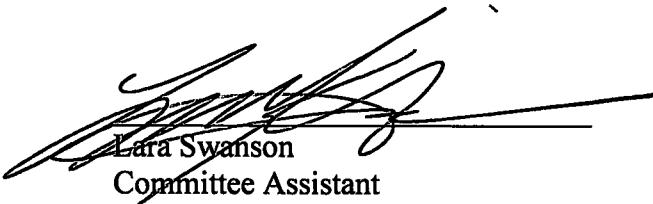
The various presentations highlighted North Carolina's wide spectrum of technology companies which operate in many parts of the state and contribute tens of millions of dollars each year to the state and local economies. Many of these companies are seeking to grow their current levels of operation and will continue to hire North Carolinians. NCTIES discussed the importance of educating the next generation of employees so that technological fluency is not an issue for graduates ready for hire for these companies. NCTIES will hold their statewide conference in Raleigh next week and all committee members are invited to attend.

The meeting then adjourned at Noon.

Respectfully submitted,



Representative Ty Harrell
Chair



Lara Swanson
Committee Assistant

House Committee on Science and Technology
Wednesday, February 25, 2009
Presenter Bios

* *Time Warner Cable*
Jack Stanley, Vice President

Jack Stanley is Regional Vice President-Government Affairs for the Time Warner Cable Carolina Region. Prior to this position he served 22 years as President of the Greensboro, NC Division of Time Warner Cable. He is an industry veteran, soon to celebrate his 41st year in the cable industry.

Jack has operated cable systems in Georgia, Texas and now North Carolina. He is known for his commitment to providing exceptional customer service, is also a four time President of the North Carolina Cable Telecommunications Association, was appointed by former Governor Jim Hunt in 1983 to a task force charged with building a statewide public affairs network known today as OPEN/Net. He now serves on the Board of the Agency for Public Telecommunications and the NC Center for Public Policy Research.

* *Epic Games*
Dana Cowley, Public Relations Manager

Dana Cowley is the public relations manager of Epic Games. Previously, Dana directed ClearImage's interactive entertainment activities by driving marketing, public relations and business development strategies for the firm's North American clients, including Emergent Game Technologies and 3Dsolve. Before joining ClearImage, Dana served as marketing and communications manager for Chapel Hill-based Octagon Entertainment's. Dana is the co-founder of the Triangle Chapter of the International Game Developers Association (IGDA), a nonprofit professional society with over 70 chapters worldwide. She served two terms as the vice president of membership for the Triangle Chapter of the American Marketing Association (AMA), one of the largest professional organizations for marketers.

Dana earned her degree from the School of Journalism and Mass Communication at the University of North Carolina at Chapel Hill. She also graduated from the Carolina Business Institute at UNC's Kenan-Flagler School of Business.

* *Electronic Arts*
Ryan Stradling, Sr. Development Director

Ryan Stradling is the Sr. Development Director and founder of the Electronic Arts – North Carolina studio in Morrisville, NC. The studio has thus far produced NASCAR® 09 PS2 and NASCAR® Kart Racing in its 2 years of existence. He started working at Electronic Arts 10 years ago as a programmer and then moved into management. He has worked on Madden, NCAA, and NASCAR through the years at EA. Before joining EA, he worked in the 3D computer graphics industry at Intergraph and Real3D.

Stradling graduated from Clemson University with a B.S. degree in Computer Science. In his free time, Ryan enjoys playing with his family, boating, or reading books related to leadership or programming.

* *Destineer Studios*

John Farnsworth, Studio Director

John Farnsworth, Destineer's Raleigh Studio Director, was formally studio manager at Red Storm Entertainment, and he managed the international teams for several of IBM's award-winning ThinkPad laptop lines. John serves as an intelligence officer and commander in the US Army Reserves and has over 20 years of military experience. John is also a certified Project Management Professional (PMP) from the Project Management Institute and holds a Master of Arts in International Affairs from the George Washington University.

* *NCTIES (North Carolina Technology In Education Society)*

Nancy Sands, President

Ellen Mintor, Vice President

Nancy Sands has served as vice-president and president of NCTIES. She is currently the legislative liaison for the organization. She has undergraduate degrees from ASU and UNC Greensboro, and masters degrees in Gifted Education, Instructional Technology, School Administration, and Reading and Language Arts from UNCG. After a long career with the Guilford County Schools, Nancy became Director of Media and Technology for Davidson County Schools where she retired in 2005. She is the webmaster for Starmount Presbyterian Church in Greensboro, and serves as an elder and chair of the church technology committee.

Ellen Minter is the Curriculum and Instruction Division Director with the NC Virtual Public School. Currently she serves as the NCTIES Vice-President and Conference Chair, and she will serve as the President for the upcoming year. Her previous experience as an educator includes leading the Technology Department at Alamance Burlington School System, and teaching marketing and business courses at Eastern and Western Alamance High Schools. Ellen's received her bachelor's from Elon University and her master's from UNC-Greensboro. She is also a busy mother to a 9 and 14 year old, as well as a local Girl Scout leader.

Municipal Competition – Proposed Legislative Approach

The Problem

- Cities have been permitted to compete against private businesses only as a result of a highly-suspect court decision. The legislature has never explicitly authorized the extent of competition which is currently occurring in some cities.
- Without safeguards, cities have the capability of unfairly competing against private businesses since they benefit from tax, fee and other advantages.
- Unfair governmental competition will deter investment by broadband, phone and cable companies, investment which is critical to the future of the State.

A Solution

- Permit cities to provide competition phone, cable and broadband services, subject to certain requirements, including:
 - Compliance with laws and regulations applicable to private providers.
 - Separate accounting.
 - No cross-subsidization from other city services.
 - May not price below cost, after imputing costs that would be incurred by a private provider.
 - Must remit to general fund taxes and fees that would be paid by private provider.
 - Must conduct an annual audit of competitive activities.
 - Any bonds must be paid for by revenues from the competitive activity.
- Make clear that competitive restrictions do not apply to the provision of broadband services in unserved areas.

VISITOR REGISTRATION SHEET

House Science and Technology

February 25, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Andy Elk	NCRMP
Elizabeth Dutton	NCRMA
John T. Farnsworth	Destineer Studios
Ryan Stradling	Electronic Arts
Dana Cowley	Epic Games
Dennis Rando	TTC
Maria Pace	Walt
Thomas Moore	Edwisten's Web
Chris Spencer	SciQuest
Bill Phillips	TWC
Mary Tratten	Brooks Reed

VISITOR REGISTRATION SHEET

House Science and Technology

February 25, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

NAME	FIRM OR AGENCY AND ADDRESS
Sammy Roberson	TWC
Connie Wilson	CWC
Ed Fulshe	BP
Doug Wushew	Capitol
Pam Melton	Embargo
Steve Brower	Embargo
HERB CRENSHAW	AT+T

House Pages

Science & Technology
Name Of Committee: _____

Date: 2.25.2009

1. Name: BROCKE Batcher.10V
County: GUILFORD
Sponsor: BLWT (BLust)
2. Name: Russ Holler
County: Person
Sponsor: Wilkins
3. Name: _____
County: _____
Sponsor: _____
4. Name: _____
County: _____
Sponsor: _____
5. Name: _____
County: _____
Sponsor: _____

Sgt-At-Arms

1. Name: Charles Williams
2. Name: Carlton Adams
3. Name: EARL Coker
4. Name: _____

**NC House of Representatives
Science and Technology Committee
Wednesday, February 25, 2009**

Video game development and production is a growing industry in North Carolina with a presence of 38 companies in the triangle alone. The companies develop and produce games from entertainment-based media to serious games technology that can be used in research and training – whether it be for medical, military or educational purposes. All of these companies create an economic engine that fuels a technology-based workforce and works collaboratively with local colleges and universities. North Carolina universities and community colleges have programs in place helping to grow the game industry through workforce development, tech transfer and industry partnerships and are now offering specialized degrees and programs in game development.

February 25, 2009 Presentations from:

Dana Cowley, Public Relations Manager, Epic Games, Cary, NC
Ryan Stradling, Sr. Development Director, Electronic Arts (EA), Morrisville, NC
John Farnsworth, Studio Director, Destineer Studios, Raleigh, NC

Epic Games – Epic is based in Cary, NC and in addition to developing video games, Epic developed and produced the “Unreal Engine” which is a platform that other game or technology-based companies can build upon. Dana showed examples of a NASA simulation, a cartoon and even the Dallas Cowboys Stadium – all being built on the platform of the Unreal Engine.

Electronic Arts (EA) – EA just opened a studio in Morrisville 2 years ago. EA produces some of the most popular video games on the market today, including Madden NFL, NCAA Football, Tiger Woods PGA Tour, NBA Live and more. NASCAR Kart Racing was just released which was produced right here in North Carolina working with the NASCAR Industry and Teams in North Carolina.

Destineer Studios – Destineer produces what is typically thought of as an entertainment-based video game. However, Destineer also develops “Serious Games,” used for realistic training simulations and military applications. These games allow soldiers to experience a simulation of the environment, weaponry, etc. that they will face once in Iraq or whatever the destination.

Industry Information in Summation

Information Provided by the Entertainment Software Association (ESA)

Game Industry Transformation

- Computer and video games are more a part of how we live, work and play than ever before.
 - Overall computer and video game sales climbed to \$22 billion in 2008, with entertainment software sales comprising \$11.7 billion of that total figure – a 22.9% jump over the previous year;
 - Sixty-five percent of American households play computer and video games and 38 percent of American homes have a video game console;
 - At last count, over 400 colleges, universities and technical schools around the world offer programs and courses in video game design and development;

- The Pew Internet & American Life Project released a study showing what we have long known - that games benefit our children's civic and social development; and
- A recent survey by Entertainment Software Association (ESA) found that 70 % of businesses currently use games to train employees on how to do their jobs or do them better.
- In less than a generation, video games have evolved from a niche market into a mass medium. Today, games are enjoyed in a majority of American homes by players of all ages and backgrounds. In addition, opinion leaders, members of the media and the general public are all now beginning to appreciate the entertainment software industry's many positive technological, social and economic contributions.

Today's Gamer

- According to our most recent statistics:
 - The average gamer is 35 years old;
 - 40 percent of gamers are women; and
 - One out of every four gamers is over 50.
- The Pew Internet & American Life Project recently found that 97 percent of teenage boys and 94 percent of teenage girls play video games.
- And ESA survey found that 72% of the parents that play video games with their children feel it is fun for the entire family.
- Nursing homes across the country are installing the Nintendo Wii for physical therapy.

Evolution of Games

- In the past three decades, game programming has developed beyond DOS-based games with simple linear programming to advanced artistic, dramatic and interactive game experiences. Today's games create new worlds with incredibly realistic animation.
- Role playing games that help children learn responsibility by caring for a digital "pet;" strategy games that enable aspiring engineers to construct the cities of tomorrow; and puzzle games that help keep our minds young and active.

Serious Games

- While our roots will always be in entertainment, today, computer and video games are also being used for more serious purposes.
- Virtual Heroes, based in Cary, NC, provides training simulations for the U.S. Army Special Forces and U.S. Secret Service through "America's Army" with over 5.6 million registered global users of the game.
- And, Virtual Heroes' "HumanSim" enables health care professionals to sharpen their assessment and decision-making skills without risk to patients in realistic, challenging and immersive environments.

- Automobile manufacturers to financial services companies to beverage producers are also using computer and video games as valuable employee training tools.
 - Duke University's Human Simulation and Patient Safety Center is developing a virtual game that trains medical professionals to treat real patients. During the game, Dr. Jeffrey Taekman, who serves as the Center's director, has the ability to manipulate all of the vital signs that doctors normally monitor. The technology is similar to that which the Army has used to train soldiers.
 - The ECU Emergency Medicine Medical Simulation and Patient Safety Laboratory is in the process of expanding into a sophisticated, state-of-the-art, simulation-based experiential learning and assessment center, using a multi-disciplinary approach in cooperation with the Brody School of Medicine at East Carolina University and University Health Systems/Pitt county Memorial Hospital. With the availability of simulation as an educational tool, healthcare professionals can rehearse, actually practice clinical skills in a dynamic, reality-based, risk-free environment.
- A survey we conducted last spring showed that 70 percent of businesses currently offer interactive computer training that includes game-like simulations, and that 78 percent of organizations not using this technology today are likely to offer it within the next five years. In addition, more than 75 percent of companies that already offer video game training plan to expand this usage in the next three to five years.

Games in Academia

- This trend in workplace training has occurred in step with colleges, universities, and technical schools across the U.S. offering programs and courses in video game design and development. Currently, more than 200 U.S. institutions are preparing students to assume future roles in our industry.
- North Carolina's video game development curricula is offered at:
 - Duke University
 - North Carolina State University
 - The School of Communication Arts in Raleigh
 - University of North Carolina-Chapel Hill
 - Wake Technical Community College
 - East Carolina University

Economic Impact

- Taken together, all of these developments in gaming have turned entertainment software into one of the fastest growing industries in the U.S. economy. According to PricewaterhouseCoopers, the sector remains *"one of the above-average growth segments of the global entertainment industries through 2011."* From 2003 to 2006, the entertainment software industry's annual growth rate exceeded 17 percent. Over the same period, the entire U.S. economy grew at a less than four percent rate.
- In 1996, according to NPD Group, the entertainment software industry had \$2.6 billion in sales. In the 12 years since then, annual sales have more than quadrupled to a record \$11.7 billion. The genre that has seen the greatest growth recently is "Family Entertainment," with games like ***NASCAR Kart Racing***, developed right here in the Triangle by **Electronic Arts (EA)**, accounted for over 19 percent of all games sold in

2008, up from 17.2 percent in 2007. When you include hardware sales, 2008 was a \$22 billion year for the computer and video games industry.

- A recent PriceWaterhouseCoopers report projected video game industry global sales will achieve double-digit growth for the next four years and top \$68 billion by 2012, with the U.S. accounting for \$17.6 billion of that.
- Such growth and popularity can be seen right here in North Carolina. According to a study conducted by Economists Incorporated, North Carolina's computer and video game industry grew by 14.9 percent in 2006, the most recent year for which numbers are available. This was more than three times as fast as the state's overall growth. Computer and video game companies in North Carolina added \$73.4 million to the state's economy in 2006.

Games as a Source of Employment

- The U.S. entertainment software industry continues to be a valuable economic engine and source of employment during these difficult economic times. Currently, computer and video game companies directly and indirectly employ more than 80,000 people in 31 states. As of 2006, North Carolina supported more than 1,500 of those jobs.
- The average salary for direct employees nationwide is \$92,300, resulting in total national compensation of \$2.2 billion. Industry employees in North Carolina average slightly more than \$84,000 in compensation, with companies collectively providing slightly more than \$68 million in direct and indirect employee compensation.

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, March 4, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, March 4, 2009 in room 425LOB at 11:03AM. The following members were present: Representative Ty Harrell, Chair; Representatives Gulley, Jones and Tolson, Vice-Chairs; and Representatives Haire, Hall, Johnson and Tillis.

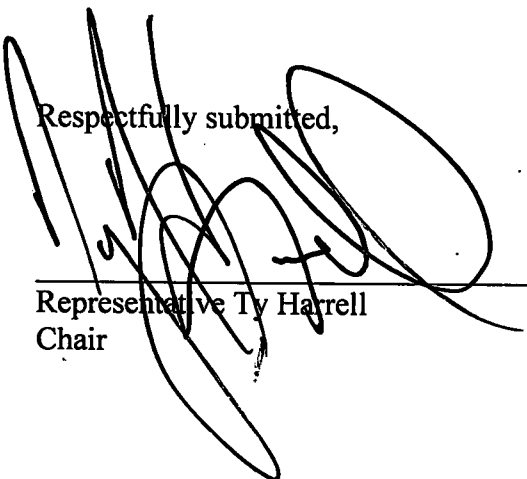
The Chair called the meeting to order and recognized the Pages and Sargent-at-Arms. He then asked committee members to introduce themselves.

The Chair then called upon Chris Spencer, an invited guest, to provide an overview of the technology company, SciQuest. Mr. Spencer gave a brief overview of how the streamlining e-procurement systems can provide a cost savings for North Carolina. Mr. Spencer called upon Josh Rose, Director of Product Marketing for SciQuest, to provide further information.

Vice Chair Tolson recommended that the state's e-procurement office present to the committee. Chairman Harrell concurred.

The meeting then adjourned at 11:45am.

Respectfully submitted,



Representative Ty Harrell
Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, March 4, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS: No bills to be heard

Presentation by:

Sci Quest – Chris Spencer

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at
14 o'clock on **March 02, 2009**.

x Principal Clerk.

x Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, March 4, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Presentation:

- * SciQuest
Chris Spencer, Southeast Regional Account Executive

Adjournment

House Committee on Science and Technology
Wednesday, March 4, 2009
Presenter Bio

SciQuest

Chris Spencer, Public Sector Account Executive

Chris Spencer is the Southeast Regional Account Executive, focused on the Public Sector for SciQuest. Chris is a twenty year veteran of the technology industry representing, Pitney Bowes SunGard, Oracle and now SciQuest. For the last ten years of his career he has been living in Cary, and providing software and services to the State of North Carolina. A former teacher, he is actively involved on the North Carolina Technology Association Knowledge Workforce Council and committed to improving the North Carolina high school graduation rate by using technology to actively engage students in the process of learning.

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

March 4, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Patrick Buffie	nmrc
Natalie Roberts	Accenture
BILL COX	DATA STAFF
John Minnich	CSC
Norlan Graves	Rep. Hall
Josh Rose	Sci. Quest
Jeff Martini	Sci Quest
Brend Phillips	TWC
Johnny Robinson	TWC
Bill Scoggin	KUL GATES
Deis Weaver	CUA

VISITOR-REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

March 4, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Ed Jurling	Brooks Pierce
RICK HELFER	IBM
BRUCE THOMPSON	PARKER POC
Doug Miskew	Capstrat
Angie Harris	Williams Miller
Tom Coley	CWA
Myra Best	Office of the Governor

Agenda

House Committee on Science and Technology

Wednesday, March 4, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Presentation:

* SciQuest

Chris Spencer, Southeast Regional Account Executive

Adjournment

House Committee on Science and Technology
Wednesday, March 4, 2009
Presenter Bio

SciQuest

Chris Spencer, Public Sector Account Executive

Chris Spencer is the Southeast Regional Account Executive, focused on the Public Sector for SciQuest. Chris is a twenty year veteran of the technology industry representing, Pitney Bowes SunGard, Oracle and now SciQuest. For the last ten years of his career he has been living in Cary, and providing software and services to the State of North Carolina. A former teacher, he is actively involved on the North Carolina Technology Association Knowledge Workforce Council and committed to improving the North Carolina high school graduation rate by using technology to actively engage students in the process of learning.

House Pages

SCIENCE &

Name Of Committee: TECH. Date: 3-04-09

1. Name: KEVIN BELL

County: VANCE

Sponsor: CRAWFORD

2. Name: _____

County: _____

Sponsor: _____

3. Name: _____

County: _____

Sponsor: _____

4. Name: _____

County: _____

Sponsor: _____

5. Name: _____

County: _____

Sponsor: _____

Sgt-At-Arms

1. Name: CHARLES WILLIAMS

2. Name: CARLTON ADAMS

3. Name: EARL COKER

4. Name: _____

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, March 11, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, March 11, 2009 in room 425LOB at 11:05AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Gulley, Jones and Tolson, Vice-Chairs; and Representatives Johnson and Tillis.


Chairman Harrell asked Vice Chair Tolson to chair today's meeting. Chairman Harrell was needed in the Transportation Committee for an important vote.

Vice Chair Tolson called the meeting to order and recognized the Pages and Sargent-at-Arms. He then asked committee members to introduce themselves.

Vice Chair Tolson then called upon Dean Daniel Solomon and Director Sharon Schulze, invited guests, to provide an overview of the program, The Science House. Dean Solomon explained that science and math education accounts for only 17% of undergraduate degrees in the United States and indicated that this will leave the US lagging in a global economy. Sharon Schulze, Director of the Science House, described the compendium of outreach programs offered throughout the state to NC schools.

The meeting then adjourned at 11:35am.

Respectfully submitted,



Representative Ty Harrell
Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, March 11, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS: No bills to be heard

Presentation by:

Science House - Sharon Shulze

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at
13 o'clock on **March 09, 2009**.

- Principal Clerk
- Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, March 11, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Presentation:

* The Science House

Sharon Schulze, Director of The Science House

Daniel L. Solomon, Professor of Statistics and Dean of the College of Physical and
Mathematical Sciences at North Carolina State University

Adjournment

House Committee on Science and Technology
Wednesday, March 11, 2009
Presenter Bios

The Science House

Sharon Schulze, Director of The Science House

Daniel L. Solomon, Professor of Statistics and Dean of the College of Physical and Mathematical Sciences at North Carolina State University

Sharon Schulze is Director of The Science House at North Carolina State University, an effort of the NC State College of Physical and Mathematical Sciences. Dr. Schulze began her career as a high school physics teacher in Texas and has taught physics and mathematics in Texas and Pennsylvania. In 2000 Dr. Schulze joined the staff of the North Carolina School of Science and Mathematics where she worked in external programs, coordinating the NOW Project, funded by the federal Technology Innovation Challenge Grant program. In 2003 Dr. Schulze became Associate Director of The Science House, was appointed Interim Director of The Science House in 2007 and was name Director of The Science House in 2008.

Daniel L. Solomon is Professor of Statistics and Dean of the College of Physical and Mathematical Sciences at North Carolina State University. Dr. Solomon began his career in 1968 at Cornell University, moving through the ranks to Professor of Biological Statistics and heading the Biometrics Unit there from 1977-81. In 1981, Dr. Solomon came to North Carolina State University as Head of the Department of Statistics, a position that he held until 1993 when he moved into the position as Associate Dean for Academic Affairs. He was named Dean of the College effective July 1, 2000.

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

March 11, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Eursula Joyner	Parent Girl Scout Troop 1150	6805 Vernie Drive Raleigh, NC 27603
Jessica Joyner	Cadet Girl Scout Troop 1150	11
Cam Cover	BPMHL	
Dennis Reynolds	TCi	
Sammy Roberson	TWC	
Kevin Massey	K. Massey	
Lynida B. Flynn	Delta Kappa Gamma - Eta State	
Elizabeth R. Lawson	Delta Kappa Gamma - Eta State	
Jocelyn Tussell	DKG - Alpha Eta Duplin County	
Blair Phillips	TWC	
Sharon McMillin	Delta Kappa Gamma	

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

March 11, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

NAME	FIRM OR AGENCY AND ADDRESS
DANIEL BUCHAN	K+L GATES

House Pages

SCIENCE &

Name Of Committee: Tech Date: 3/11/09

- 1. Name: JOSHUA Douglas
County: WAKE
Sponsor: REP. STAM
- 2. Name: RACHEL Douglas
County: WAKE
Sponsor: REP. STAM
- 3. Name: _____
County: _____
Sponsor: _____
- 4. Name: _____
County: _____
Sponsor: _____
- 5. Name: _____
County: _____
Sponsor: _____

Sgt-At-Arms

- 1. Name: CHARLES Williams
- 2. Name: CARLTON Adams
- 3. Name: EARL COKER
- 4. Name: _____

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, March 18, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, March 18, 2009 in room 425LOB at 11:05AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Gulley, and Jones, Vice-Chairs; and Representatives Hall, Stevens, and Tillis.

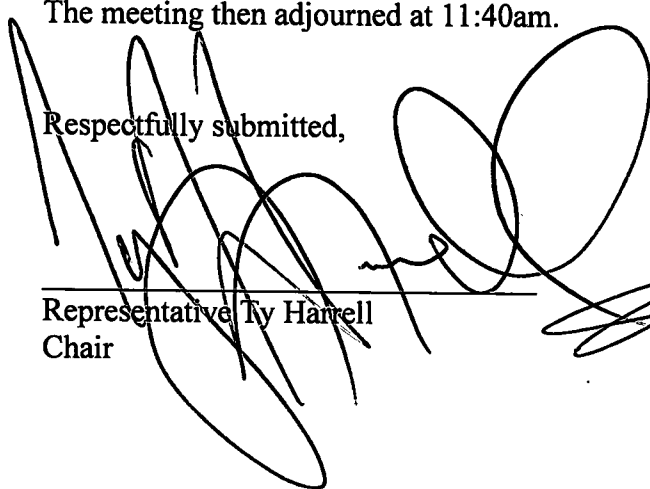
Chairman Harrell called the meeting to order and recognized the Pages and Sargent-at-Arms. He then asked committee members to introduce themselves.

Chairman Harrell called upon R. Scott Perry, an invited guest, to provide an over view of the company Partnership for Defense Innovation (PDI). Mr. Perry is the company's president. He explained that the North Carolina legislature created PDI three years ago with the charge to help small military security companies grow and win government and commercial contracts. PDI has worked successfully with numerous companies over the past three years and this has resulted in 158 new jobs in North Carolina and has infused \$32 million into the state economy through payroll, and sales and use taxes. Mr. Perry called upon Gary Mitchell, Sr. Business Developer at PDI, to answer questions from committee members about PDI operations. Mr. Perry said that PDI remains in the current state budget but he anticipates operating as an independent entity in the years to come.

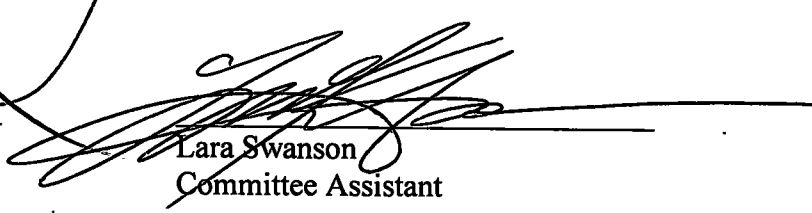
Chairman Harrell then called upon Bob Hawkins, an invited guest, to provide an overview of the company EMC Corporation. Mr. Hawkins is the Vice President of NC Operations. EMC Corporation is a global company which specializes in information management and is the market leader in storage technology. They have sales, service, manufacturing, and research and development offices in North Carolina in the following areas: Charlotte, Greensboro, RTP, Raleigh, and Apex. Based upon assets and market capitalization, EMC Corporation ranks eighth in the nation in technology companies. Locally, the company has been named one of the best places to work for four consecutive years by the Triangle Business Journal. The company has 869 North Carolina employees with an average wage of \$90,000, which results in \$130 million infused into the state economy.

The meeting then adjourned at 11:40am.

Respectfully submitted,



Representative Ty Harrell
Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, March 18, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS: No bills to be heard

Presentations by:

EMC Corporation – Mike Wade

The Partnership for Defense Innovation – R. Scott Perry

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at
13 o'clock on **March 16, 2009**.

- Principal Clerk
 Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, March 18, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Presentations:

* Partnership for Defense Innovation
R. Scott Perry, President

* EMC Corporation
Michael Wade, Sr. Account Executive
G. Robert Hawkins, Vice President of NC Operations

Adjournment

House Committee on Science and Technology
Wednesday, March 18, 2009
Presenter Bios

Partnership for Defense Innovation (PDI)

R. Scott Perry, President

R. Scott Perry serves as the president of the Partnership for Defense Innovation (PDI) and the executive director of the Defense and Security Technology Accelerator (DSTA). He possesses twenty-seven years of progressive, results oriented management experience. He has extensive experience and knowledge in government contracting. As a defense contractor, his previous positions include Program Manager, Deputy Director, Senior Director of Operations, and Senior General Manager. In his last position with Lockheed Martin Information Technology (LMIT), Scott managed 92 employees located in seven states and two countries. He has designed, bid/built, equipped and staffed six offices / training facilities totaling approximately 50,000 sq feet. Mr. Perry retired from the U.S. Army with 23 years of service, spending more than 20 years in U.S. Army Special Operations Forces, including assignments throughout Latin America, Europe and the Middle East. A significant portion of his career was based at Fort Bragg in Fayetteville, NC.

EMC Corporation

Michael Wade, Sr. Account Executive

G. Robert Hawkins, Jr., Vice President of NC Operations

Mike Wade is the Senior Account Executive at EMC Corporation, the world wide leader in information technology solutions consisting of hardware, software and consulting services. Mr. Wade's area of responsibility includes all agencies within the State of North Carolina and the State's Higher Education institutions. Helping the State of North Carolina deploy information infrastructures that enable a higher level of service for all residents, enable critical legislative programs and provide efficiency of government operations are primary objectives of Mr. Wade in his role as a Senior Account Executive. Mr. Wade joined EMC in 1997 and has been a resident of North Carolina for the past 9 years.

G. Robert Hawkins, Jr. is the Vice President of North Carolina Operations at EMC Corporation, the world leader in products, services and solutions for information storage and management. In this role, he is responsible for strategic direction and day-to-day operations at EMC's manufacturing plant in Apex, with executive responsibility for the software development facility in RTP. He is also responsible for developing partnerships with business and education, and is active in NCTA and local Chambers of Commerce. Mr. Hawkins joined EMC in 2005 with more than 29 years' experience in high-tech manufacturing. A native of South Carolina, Mr. Hawkins graduated cum laude in political science from Clemson University, and took part in the leadership development program at the Center for Creative Leadership.

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

March 18, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Chris Spencer	SciQuest
JOHN SHAW	WAKE UP
Kevin Massey	
Sharlini Sankaran	Science & Technology, Dept of Commerce
Beverly Vance	NC DPI K-12 science
Sammy Roberson	TWC
Thomas Webb	Edmisten & Webb
Blair H	TWC
Gary Mitchell	PDI / DSTA
RANDY McLEAN	PDI / DSTA
Rufus L. Edmisten	Edmisten & Webb

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

March 18, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Mike Wade	EMC 701 Corporate Dr Raleigh NC
RANDALL GRESSETT	EMC Corporation 701 Corporate Ctr Dr RALEIGH, NC 27607
Bob Hawkins	EMC Corp. 5800 Technology Dr., Apex, NC 27539
Doug Miskew	Capstrat
Dennis McCarty	NCGA
Dennis Reynolds	TCI
Daniel Brown	K+L GATES
Ralph L. Weddington	visitor 466 Lytleton DR CHARLOTTE NC 28211

House Pages

SCIENCE +

Name Of Committee: TECH Date: 3-18-09

1. Name: Dibouan MEGILL

County: Wake

Sponsor: Blue

2. Name: Jared Knecht

County: New Hanover

Sponsor: Justice

3. Name: _____

County: _____

Sponsor: _____

4. Name: _____

County: _____

Sponsor: _____

5. Name: _____

County: _____

Sponsor: _____

Sgt-At-Arms

1. Name: Charles Williams

2. Name: CARLTON Adams

3. Name: EARL COKER

4. Name: _____

5. Name: _____

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, March 25, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, March 25, 2009 in room 425LOB at 11:05AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Gulley, and Tolson, Vice-Chairs; and Representatives England, Johnson, and Stevens.

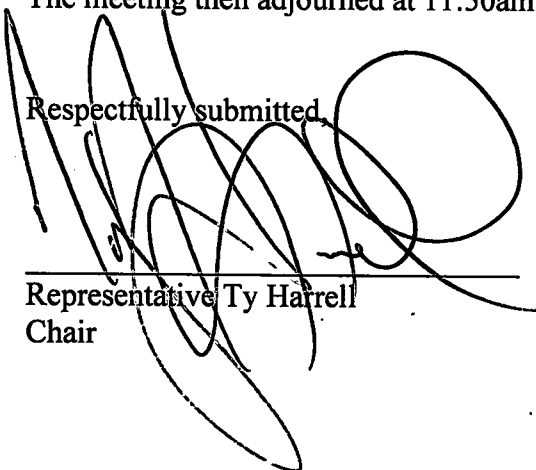
Chairman Harrell called the meeting to order and recognized the Pages and Sargent-at-Arms.

The Chair called upon Steven Burke, an invited guest, to present an overview of the company, Biofuels Center of North Carolina. Mr. Burke will soon join the company as it's president. The center was created by legislative mandate in 2007 and it's the only state-based office for biofuel research in the nation. The center creates public and private partnerships that work in concert to reduce the state's use of petroleum based fuels. The center hopes to reduce petroleum based fuel consumption in North Carolina by 10% in 10 years (2017), which equates to 600 million gallons of gasoline.

The Chair then called upon Esther Alegria, an invited guest, to present an overview of the company, Biogen Idec. Dr. Alegria is Vice President of Manufacturing and General Manager in North Carolina. Biogen Idec is an international company with 4,500 global employees. It has had a manufacturing facility in Durham since 1995 that employs 850 North Carolinians. Dr. Alegria identified three crucial areas to maintaining a facility in North Carolina: infrastructure, particularly as it relates to water as that is the most important resource for the company; an educated population, since 67% of the NC employees hold a bachelor's degree or higher; and, an inviting tax environment. Dr. Alegria explained that it is her job to ensure the NC facility receives it's share of research and development projects, and these three areas help her to make the case for NC being the most attractive option to company administration when decisions are made about project allocation.

The meeting then adjourned at 11:50am.

Respectfully submitted,



Representative Ty Harrell
Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION
CORRECTED NOTICE**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, March 25, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS: No bills to be heard – presentation added

Presentations by:

Biofuels Center of North Carolina – Steven Burke

Biogen Idec - Esther Alegria

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at
10 o'clock on March 24, 2009.

- Principal Clerk
 Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, March 25, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Presentations:

* Biofuels Center of North Carolina
Steven Burke, President and CEO

* Biogen Idec
Esther Alegria, VP of Manufacturing and General Manager

Adjournment

House Committee on Science and Technology
Wednesday, March 25, 2009
Presenter Bio

Biofuels Center of North Carolina
Steven Burke, President and CEO

Steven Burke has spent 24 years asking an increasingly significant question: how can this state be strong and stronger in biotechnology and life sciences? He has done so at the North Carolina Biotechnology Center, beginning as its fifth employee in 1985 soon after Governor Hunt established the Center. He will depart the Center next Friday, 3 April, as Senior Vice President of Corporate Affairs, and assume a new position: President and CEO of the Biofuels Center of North Carolina, located in Oxford. He is compelled by the societal, strategic, agricultural, and economic importance of the biofuels endeavor, triggered by the NC General Assembly in 2006. With an undergraduate degree in the Religion and Literature from Duke University, he takes seriously the juncture of life-based technology with human benefit.

Biogen Idec
Esther Alegria, VP of Manufacturing and General Manager

Dr. Esther Alegria is Vice President of Manufacturing and General Manager at Biogen Idec, one of the world's largest biotechnology companies, where she oversees the company's manufacturing facilities and general operations of the company's 850-employee site in Research Triangle Park (RTP). She previously held leadership positions overseeing Quality functions at Biogen Idec, Banner Pharmacaps and Wyeth. Dr. Alegria has held research and teaching assignments, including a National Institutes of Health (NIH) postdoctoral fellowship, at North Carolina State University, Fayetteville (NC) Technical College, the University of Virginia and the University of Hawaii. She obtained a Ph.D. and B.S. in Chemistry from the University of Hawaii as well as an A.S. in Chemical Engineering Technology from the University of Puerto Rico.

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

March 25, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

JOHN SHAW	WAKE UP WAKE CO.
KEVIN MASZEY	
Betsy Bailey	Professional Engineers of NC
Ed Fulkerson	Bowles Pierce
Bob Soem	NCFA
Kevin Leonard	WC SR
Mike McBryde	Biogen Idec
Esther Alegria	Biogen Idec
Ashley Fox	Biofuel Co of NC
Greg Hancock	EGHS
Matt Lipsky	Duke Law School

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

March 25, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

DOUG CURRAN	DUKE LAW
Justin Jesse	Duke Law
Chioma Ajoku	Duke Law
Grenaira Tyce	Duke Law
William Blais	Sr. Lecturing Fellow Duke Law
Michael Heley	Commerce
John Monaghan	Piedmont Natural Gas
Bill Scobbin	KLG
Doug Miskew	Capstrat

House Pages

SCIENCE &

Name Of Committee: TEch Date: 3-25-09

1. Name: Jackie Desse

County: Scotland

Sponsor: Joe Harkney

2. Name: Kiava Hinton

County: Guilford

Sponsor: Earl Jones

3. Name: _____

County: _____

Sponsor: _____

4. Name: _____

County: _____

Sponsor: _____

5. Name: _____

County: _____

Sponsor: _____

Sgt.-At-Arms

1. Name: CHARLES Williams

2. Name: CARLTON Adams

3. Name: EARL COKER

4. Name: _____

5. Name: _____

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, April 1, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, April 1, 2009 in room 425LOB at 11:03AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Gulley, Jones and Tolson, Vice-Chairs; and Representatives England, Hall, Stevens and Tillis.

Chairman Harrell called the meeting to order and recognized the Pages and Sargent-at-Arms.

Chairman Harrell then called upon Vice Chair Tolson to present on the bill he sponsored which was before the committee:

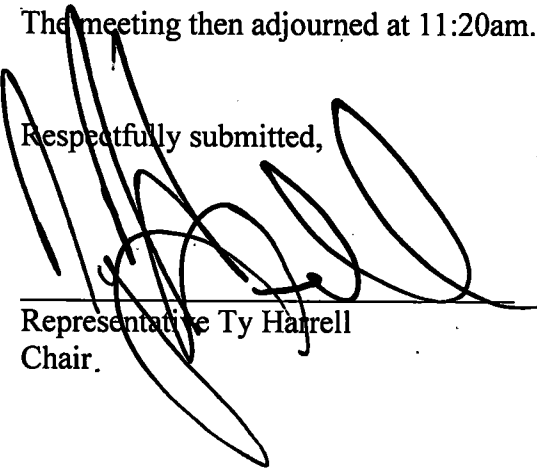
HB 719, AN ACT TO IMPLEMENT THE STATE GEOGRAPHIC INFORMATION CONSOLIDATION PLAN AND TO APPROPRIATE FUNDS FOR THAT PURPOSE.

Vice Chair Tolson presented information about the bill, then Chairman Harrell called upon committee staff counsel Brenda Carter for a point of clarification. Vice Chair Tolson then requested that Lee Mandell, Chair of the NC Geographic Council (GICC) be allowed to present on the bill, Chairman Harrell agreed and called upon Mr. Mandell. Mr. Mandell provided clarification on funding.

Vice Chair Jones then made a motion on the bill of a favorable report, re-referred to Appropriations. The motion passed.

The meeting then adjourned at 11:20am.

Respectfully submitted,



Representative Ty Harrell
Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, April 1, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS:

The following bills will be considered:

BILL NO.	SHORT TITLE	SPONSOR
HB 719	GIS Implementation Plan/Funds.	Representative Tolson

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at 12 o'clock on **March 30, 2009**.

- Principal Clerk
 Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, April 1, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Bill:

**HB 719, AN ACT TO IMPLEMENT THE STATE GEOGRAPHIC INFORMATION
CONSOLIDATION PLAN AND TO APPROPRIATE FUNDS FOR THAT PURPOSE.**

Adjournment

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND TECHNOLOGY.

Committee Substitute for

HB 719 A BILL TO BE ENTITLED AN ACT TO IMPLEMENT THE STATE GEOGRAPHIC INFORMATION CONSOLIDATION PLAN AND TO APPROPRIATE FUNDS FOR THAT PURPOSE.

With a favorable report and recommendation that the bill be re-referred to the Committee on APPROPRIATIONS.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ The bill/resolution is re-referred to the Committee on _____.

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, April 08, 2009

Chairman Harrell asked Vice Chair Tolson to chair today's meeting. Chairman Harrell was needed in the Transportation Committee to present one of his bills.

Upon call of the Vice Chair, the House Committee on Science and Technology met on Wednesday, April 8, 2009 in room 425LOB at 11:10AM. The following members were present: Representative Ty Harrell, Chair, Representatives Avila, Gulley, Jones and Tolson, Vice-Chairs; and Representatives Haire, Hall, Stevens, and Tillis.

Vice Chair Tolson called the meeting to order and recognized the Pages and Sergeant-at-Arms.

Vice Chair Tolson then called upon Kevin Leonard, Senior Government Relations Manager, Womble Carlyle, Sandridge & Rice, and PLLC, to introduce the speaker giving the presentation to the committee today.

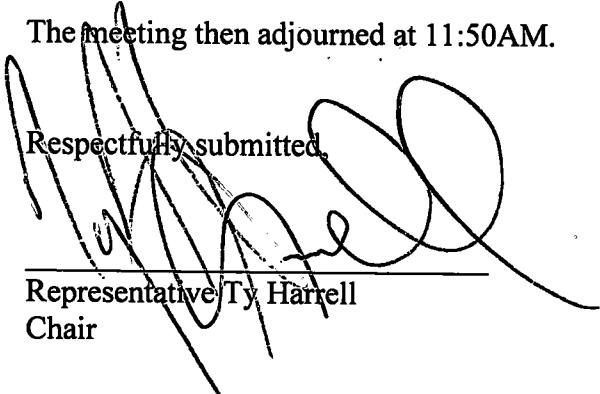
Southern Research Institute (SRI)

Stephen Piccot, Director of Advance Energy and Transportation Technologies


Stephen Piccot has overall responsibility for SRI's operations in North Carolina. He has nearly 30 years experience executing and leading environmental, energy and transportation technology research, development, and demonstration efforts. Mr. Piccot founded and directs the Carbon-to-Liquids (C2L) Development Center in Durham, an advanced energy laboratory that designs, builds, operates, and optimizes pilot-scale industrial facility prototypes of advanced biofuel production technologies. He also founded the U.S. EPA's Greenhouse Gas (GHG) Technology Verification Center in 1997, an independent testing laboratory that continues to provide publicly available consumer reports on the performance of new technologies that reduce greenhouse gases. His technology exposure is broad, ranging from conventional and advanced energy technologies to manufacturing and agricultural processes. He has developed national measurement standards, field-demonstrated advanced energy and vehicle technologies, and developed energy demand and emissions forecast models.

The meeting then adjourned at 11:50AM.

Respectfully submitted,



Representative Ty Harrell
Chair



Rachel Dupree
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, April 8, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS:

No bills will be heard

Presentation by:

Southern Research Institute (SRI) – Stephen Piccot

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at
14 o'clock on **April 02, 2009**.

- Principal Clerk
- Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, April 8, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Presentations:

* Southern Research Institute

Stephen Piccot, Director of Advance Energy and Transportation Technologies

Adjournment

House Committee on Science and Technology
Wednesday, April 8, 2009
Presenter Bio

Southern Research Institute (SRI)

Stephen Piccot, Director of Advance Energy and Transportation Technologies

Stephen Piccot has overall responsibility for SRI's operations in North Carolina. He has nearly 30 years experience executing and leading environmental, energy and transportation technology research, development, and demonstration efforts. Mr. Piccot founded and directs the Carbon-to-Liquids (C2L) Development Center in Durham, an advanced energy laboratory that designs, builds, operates, and optimizes pilot-scale industrial facility prototypes of advanced biofuel production technologies. He also founded the U.S. EPA's Greenhouse Gas (GHG) Technology Verification Center in 1997, an independent testing laboratory that continues to provide publicly available consumer reports on the performance of new technologies that reduce greenhouse gases. His technology exposure is broad, ranging from conventional and advanced energy technologies to manufacturing and agricultural processes. He has developed national measurement standards, field-demonstrated advanced energy and vehicle technologies, and developed energy demand and emissions forecast models.

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

April 8, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

NAME	FIRM OR AGENCY AND ADDRESS
<i>Osley</i>	<i>BioGen^{te} NC</i>
MARK CONLON	VP, BIOFILLS GRP OF NC
Jonathan Ducote	NCCA
Dennis Rydals	TTC
Shawlini Sankaran	Office of Sci & Tech, NC Commerce
Fanny Robinson	TWC
Brad Phillips	TWC
Betsy Bailey	Professional Engineers of NC
John Minnich	CSC
Floyd Thomas	ADOBE SYSTEMS
Bill Scobin	KLG

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

April 1, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Sharlini Sankaran	Office of Science & Tech NC Dept of Commerce
JOHN SHAW	SELF
BRAD PHILLIPS	TWC
Sarah Porter	OSBA
Danny Lieser	ITS
Becki Gray	John Locke Foundation
Billy Willey	ITS
Norlan Graves	Rep. Hall
Doug Miskew	Capstat

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

April 1, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

John Correll	Commerce
Dennis Reynolds	TCI
Bob Branson	CORRECTION
Julie Stamper	Pasquotank County
Anne Payne	Wake County
Lee Mandell	NC BICC
Tim Johnson	DENR - Center for Geographic Info & Analysis
Elizabeth Biser	DENR
Richard Taylor	NC 911 Board
Zsolt Nagy	Center for Geographic Info & Analysis
Sammy Roberson	TWK

House Pages

SCIENCE &

Name Of Committee: Tech Date: 4-8-09

1. Name: Michael Vidal

County: Wake

Sponsor: Grier, M

2. Name: Nick Hunter

County: Johnston

Sponsor: Owens

3. Name: _____

County: _____

Sponsor: _____

4. Name: _____

County: _____

Sponsor: _____

5. Name: _____

County: _____

Sponsor: _____

Sgt-At-Arms

1. Name: Charles Williams

2. Name: Martha Parrish

3. Name: Earl Coker

4. Name: _____

House Pages

Science +

Name Of Committee: TRch Date: 4-1-09

1. Name: Elizabeth Marshall
County: Surry
Sponsor: Stevens
2. Name: Myles Swain
County: New Hanover
Sponsor: McComas
3. Name: _____
County: _____
Sponsor: _____
4. Name: _____
County: _____
Sponsor: _____
5. Name: _____
County: _____
Sponsor: _____

Sgt-At-Arms

1. Name: Charles Williams
2. Name: Carlton Adams
3. Name: Earl Coker
4. Name: _____

SOUTHERN RESEARCH

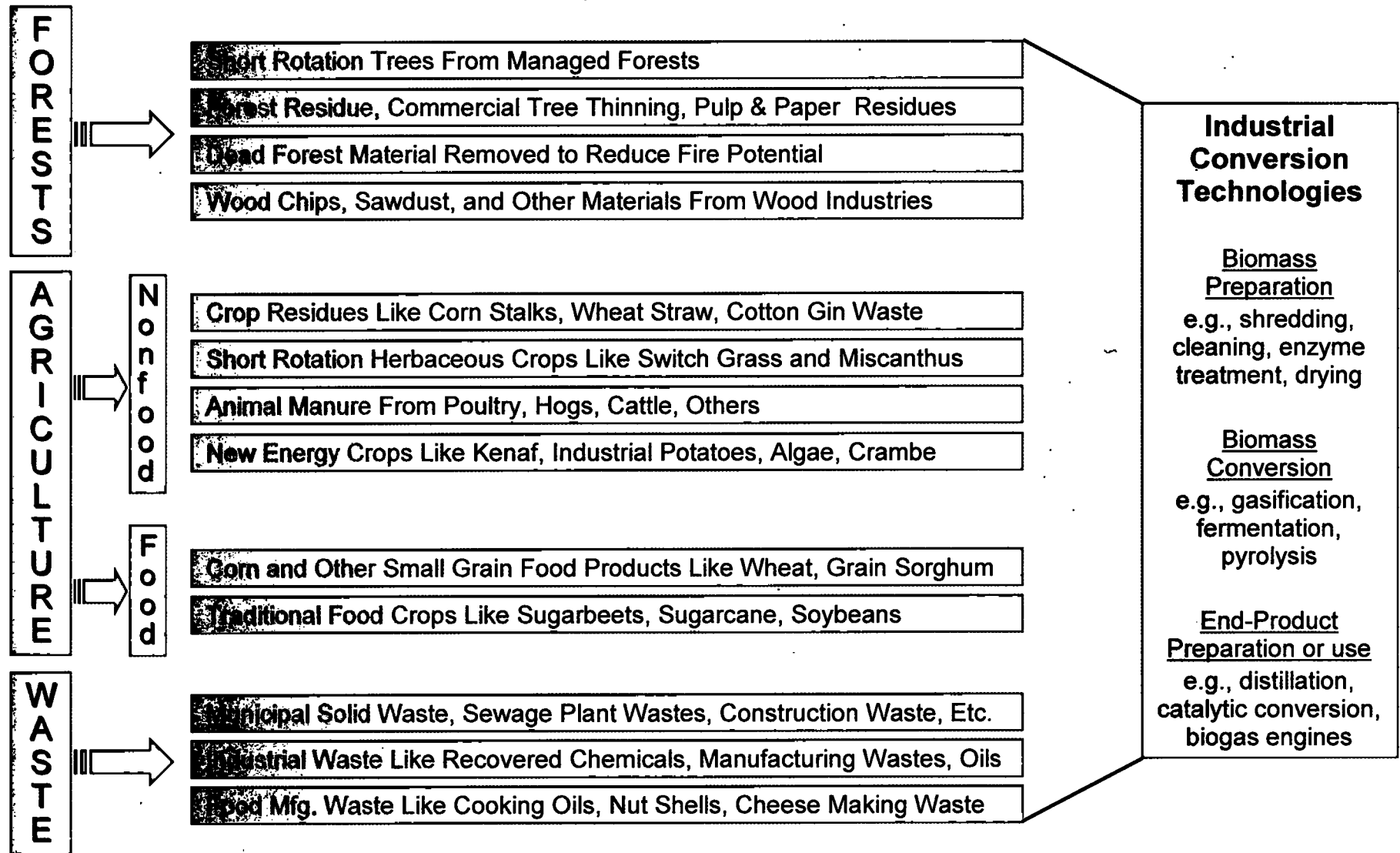
Legendary Discoveries. Leading Innovation. For 65 years

Southern Research Capabilities and BioEnergy Industry Focus

Meeting With Norris Tolson

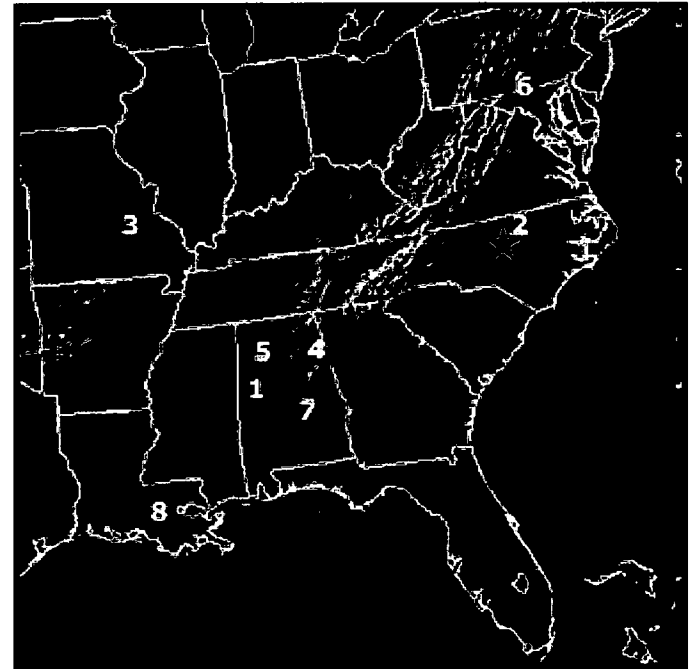
April 7, 2009

Rich and Diverse Pathways For Biofuels



Southern Research

- Eight Southeast U.S. Locations
- In North Carolina Since 1992
- Contract Research for 67 Years
- 600 Staff, \$81M Revenue
- Game Changing Discoveries
 - 6 anticancer drugs
 - Only childhood Leukemia drug
 - 50 years of spaceflight support
 - Heat pump development
 - Power plant pollution control devices



Southern Research In North Carolina

- Southern's E&E Technology Focus

- Conventional energy

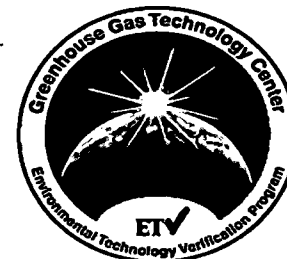
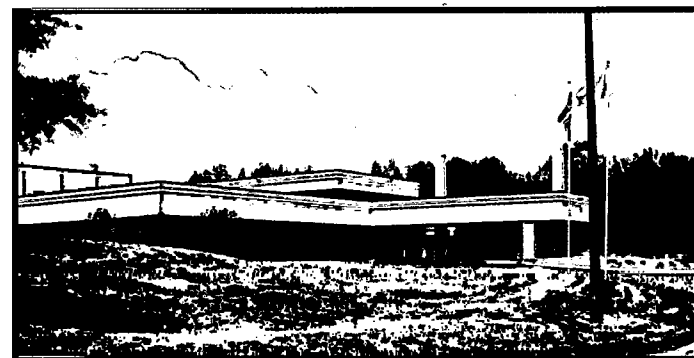
- Fossil fuel electric power plants, oil & gas production/distribution, coal mining

- Advanced energy

- Advanced fuels (biomass, wastes, clean coal), synthetic liquid fuels, fuel cells, microturbines, ...
 - Greenhouse gas control devices

- Transportation & other

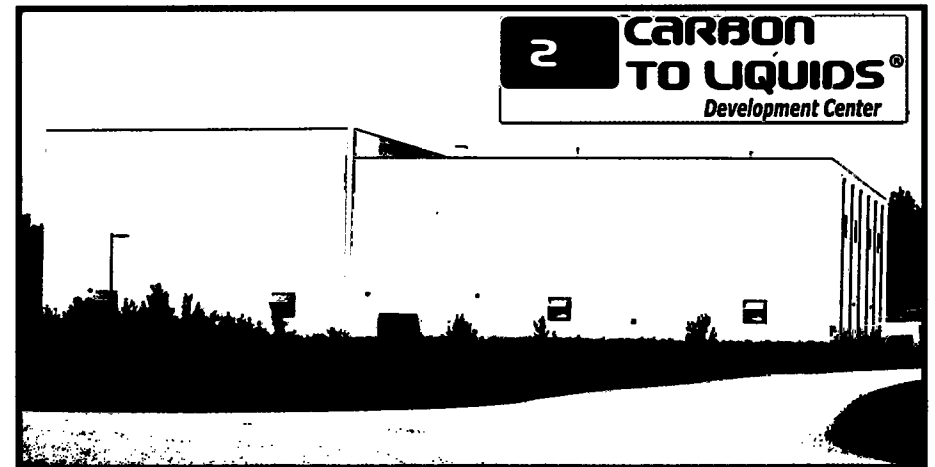
- Vehicle emissions and efficiency
 - Independent technology performance verification



SOUTHERN RESEARCH

New Energy Technology Development Lab in Durham

- The Focus - Clean Technologies/Fuels Made From US Resources
- The Goal - Help Clients Design, Build, Operate, and Optimize New Energy and Fuel Technologies (pilot plants)
- Commercialization is the Goal, not Academics
- Technology Independent, Credible Results, Competitive Prices



SOUTHERN RESEARCH

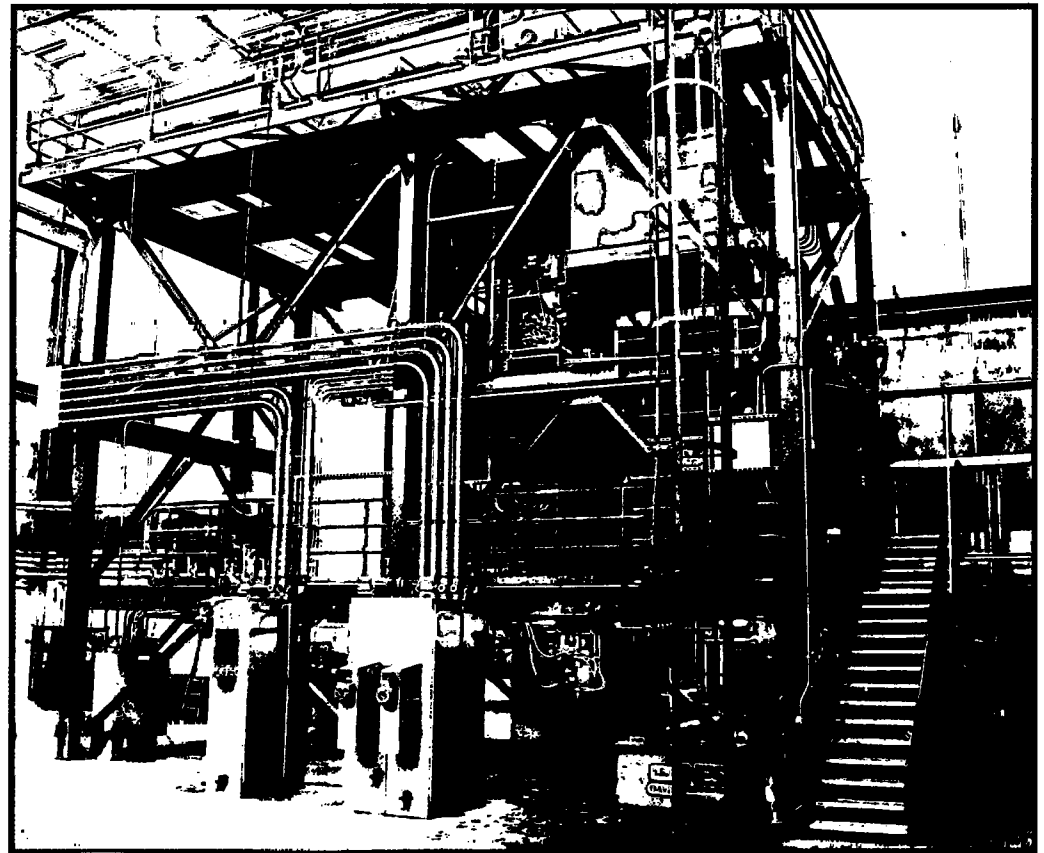
Over \$20M Invested so Far in North Carolina Energy Laboratory

- Southern Research (\$5.4M)
 - Land, building, new infrastructure and laboratories
- Southern Partner Contributions (\$6.0M)
 - FT syngas to diesel plant (\$3.0M)
 - Bioproducts refining plant (\$0.25M)
 - Synthetic syngas system delivery system (\$0.5M)
 - MSW gasifier (\$2.1M)
 - Misc test equipment (\$0.1M)
- Client Equipment (\$10M)
 - Biomass gasifier (~ \$4.2M)
 - DOE/partner supported syngas cleanup system (\$3.0M)
 - Syngas to alcohol reactor (\$1.3M)
 - DOE coal/biomass mixtures feeder system (\$1.3M)

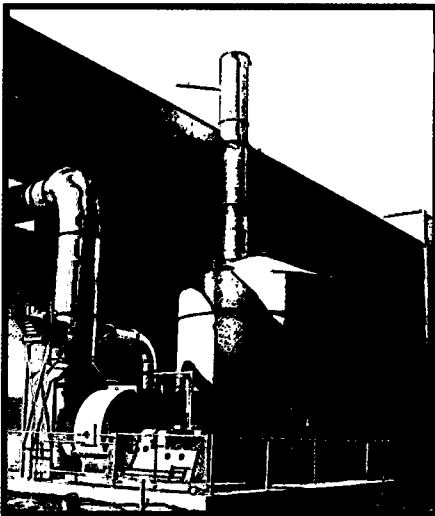
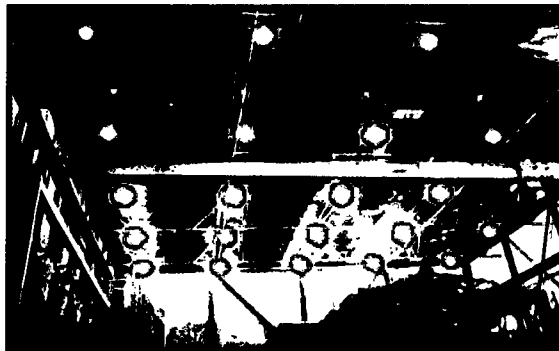
Technologies in Process at

The **EL** CARBON
TO LIQUIDS®
Development Center

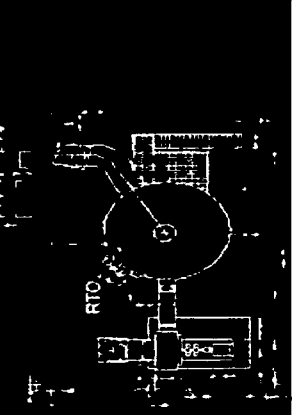
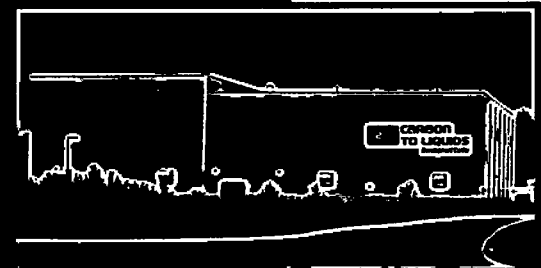
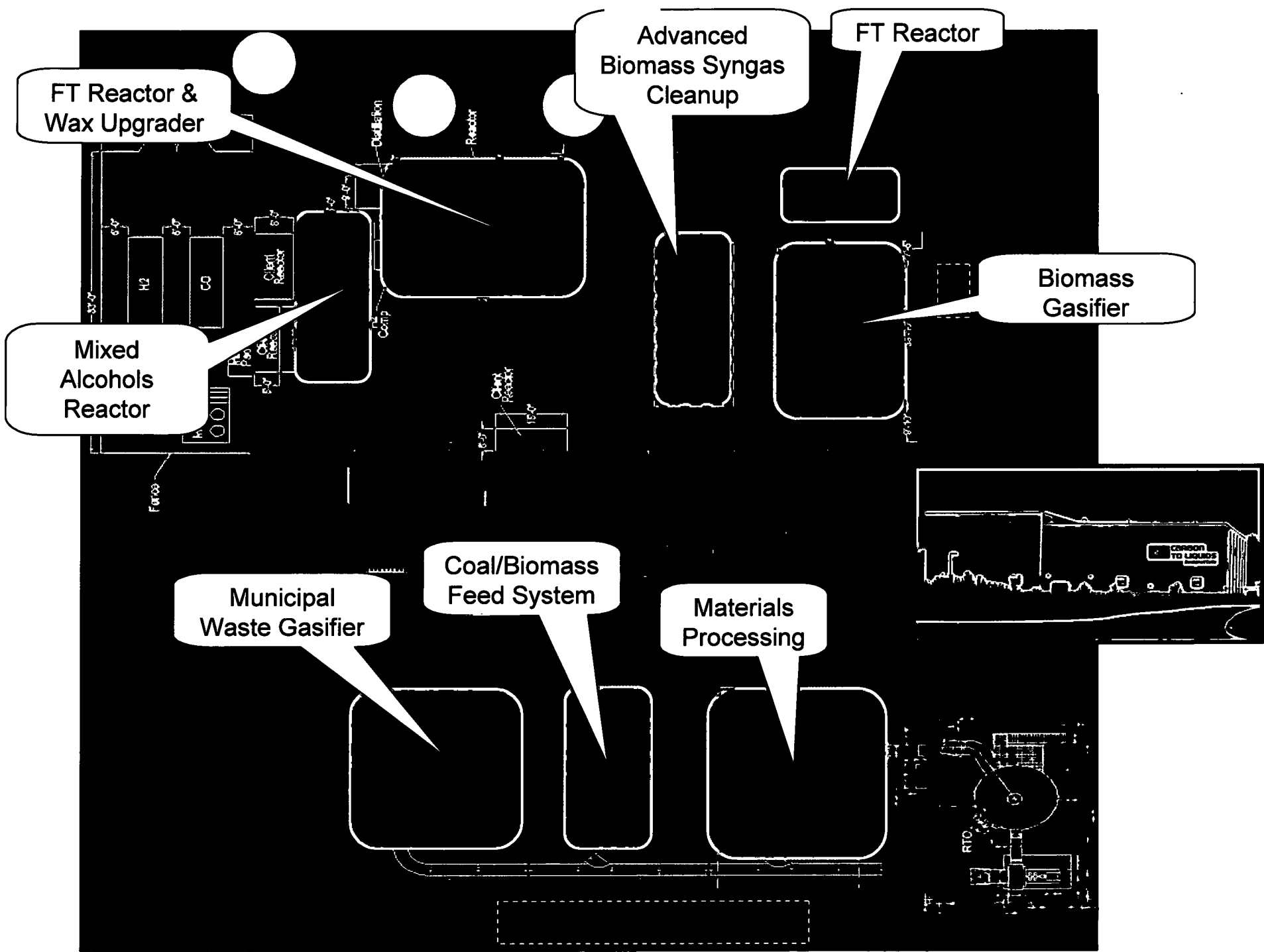
- Two integrated bio-refineries (diesel)
- MSW gasifier
- Biomass gasifier
- Cellulosic biomass to alcohol reactor
- Biomaterial processing & feed systems
- Coal/Biomass blending
- Syngas cleaning systems



SOUTHERN RESEARCH



- Facilities
 - High-bay (30,000ft²)
 - office/lab (12,000ft²)
 - Client offices & show-case
 - Analytical labs, site security
- PDU support infrastructure
 - Permits, electrical, steam, N₂, O₂, air, natural gas, synthetic syngas, tail gas destruction, 4 cranes, control room, waste disposal, safety management
- Technical support staff
 - Project managers, engineers, process operators, design support, lab staff, others
- Client PDU access
 - Southern may operate some client PDU's for others



Example Recent Clients

- Gov't • Colorado State Energy Office
 - Conoco Phillips
 - Eastern Research Group
 - Fulcrum Bioenergy★
 - Kennecott Energy

- Gov't • NYS Energy Research & Development Authority

- Gov't • North Carolina Biofuels Center★
 - Rentech Inc.★
 - Rio Tinto Americas
 - TRI★

- Gov't • U.S. DOE★

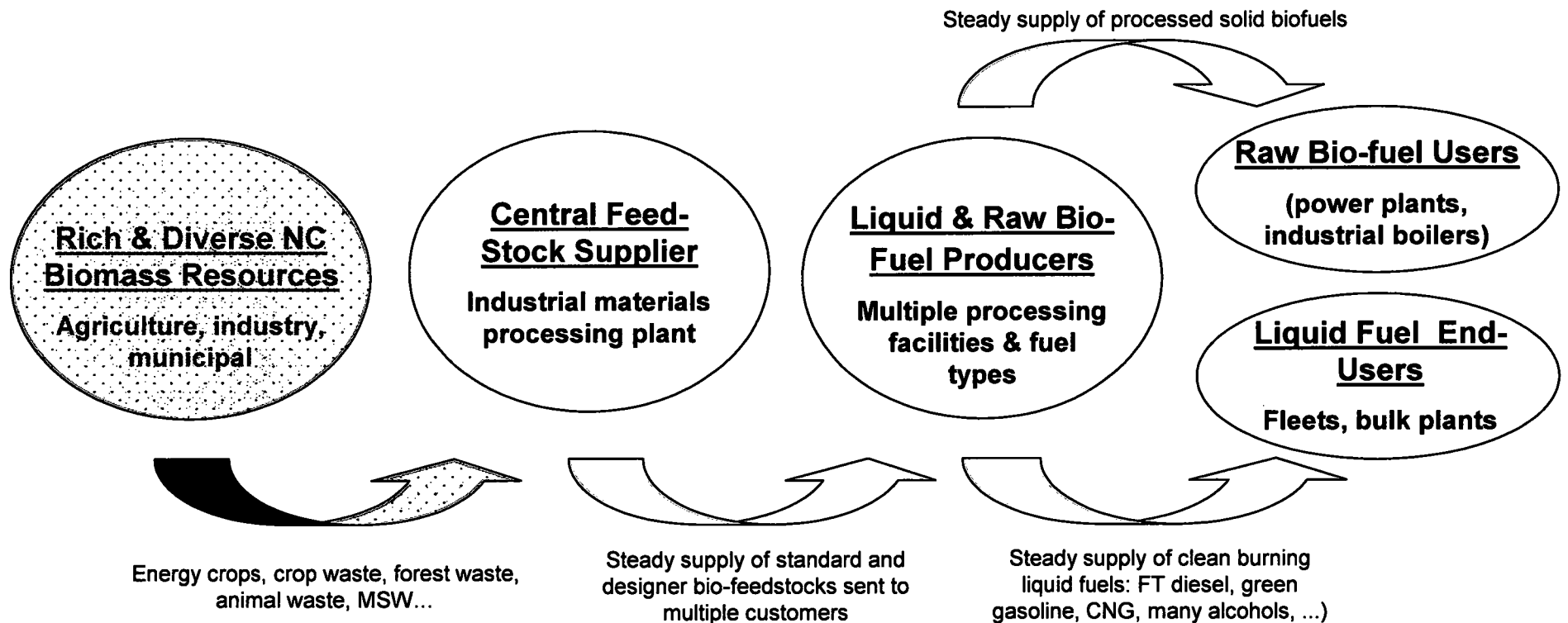
- Gov't • U.S. DOD

- Gov't • U.S. EPA

★ = biofuels client

NC's Diverse Biofuels Value Chain

Demonstration Could Spur it's Development and Allow NC to Enter Before Competing States



SOUTHERN RESEARCH

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, April 15, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, April 15, 2009 in room 425LOB at 11:05AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Gulley, Jones and Tolson, Vice-Chairs; and Representatives Haire, Hall, Johnson, Stevens and Tillis.

Chairman Harrell called the meeting to order and recognized the Pages and Sargent-at-Arms.

Chairman Harrell then called upon Vice Chair Tolson to chair the meeting as Chairman Harrell's bill (HB1252) was being heard in committee.

Vice Chair Tolson called for Chairman Harrell to speak on the following bill:

HB 1252 AN ACT TO REGULATE COMPETITION BETWEEN LOCAL GOVERNMENT AND PRIVATE BUSINESS BY REQUIRING CITIES THAT PROVIDE COMMUNICATIONS SERVICES TO THE PUBLIC TO COMPLY WITH LAWS APPLICABLE TO PRIVATE PROVIDERS, TO ESTABLISH SEPARATE ENTERPRISE FUNDS, TO NOT CROSS-SUBSIDIZE COMMUNICATIONS SERVICE WITH OTHER GOVERNMENTAL FUNDS, TO IMPUTE THE COSTS THAT WOULD BE INCURRED BY PRIVATE PROVIDERS, TO ANNUALLY REMIT TO THE CITY'S GENERAL FUND THE COSTS THAT WOULD BE INCURRED BY PRIVATE PROVIDERS, AND TO PREPARE AN ANNUAL AUDIT OF COMPETITIVE ACTIVITIES.

Chairman Harrell summarized the bill and explained that the bill will travel to two other committees following Science and Technology.

Vice Chair Tolson called for questions from committee members about the bill. Rep. Hall was recognized by Vice Chair Tolson and asked a question of Chairman Harrell, who replied. Rep. Tillis was then recognized by Vice Chair Tolson for a follow-up on Rep. Hall's question.

Rep. Hall was recognized by Vice Chair Tolson for a follow-up question and comment. Vice Chair Tolson replied.

Rep. Haire indicated to Vice Chair Tolson that he had a question but would wait to ask until the end of the presentations.

Vice Chair Tolson recognized Chairman Harrell for a comment.

Vice Chair Tolson recognized Mayor Susan Klutz, City of Salisbury, to speak on the bill. Mayor Klutz expressed opposition to the bill.

Vice Chair Tolson recognized Grant Goings, City Manager, City of Wilson, to speak on the bill. Mr. Goings expressed opposition to the bill.

Vice Chair Tolson recognized Catharine Rice, representing the Triangle J Cable and Broadband Consortium, Nash County, and the Southeastern Association of Telecommunications Officers and Advisors. Ms. Rice expressed opposition to the bill.

Vice Chair Tolson recognized Evan Webster, Chair of MI Connections. Mr. Webster expressed opposition to the bill.

Vice Chair Tolson recognized Brad Phillips, President of the NC Cable Association. Mr. Phillips expressed support for the bill.

Vice Chair Tolson recognized Kelli Kukura, representing the NC League of Municipalities. Ms. Kukura expressed opposition to the bill.

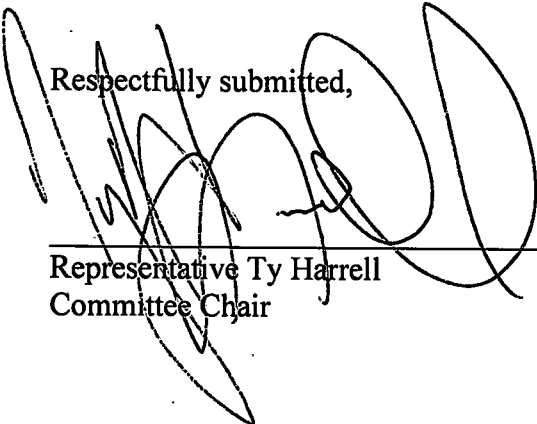
Vice Chair Tolson recognized Mayor Vivian Jones, Town of Wake Forest. Mayor Jones expressed opposition to the bill.

Vice Chair Tolson noted the time of 11:50AM, and explained that since the committee was beyond the time of adjournment it was past the time a vote could be taken. The vote on the bill will be moved to the following meeting date, Wednesday, April 22.

Vice Chair Tolson recognized Vice Chair Jones. Vice Chair Jones indicated he had a question but would hold it for next week's meeting.

The meeting then adjourned at 11:55 AM.

Respectfully submitted,



Representative Ty Harrell
Committee Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, April 15, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS:

The following bills will be considered:

BILL NO.	SHORT TITLE	SPONSOR
HB 1190	Preservation of DNA & Biological Evidence.	Representative Glazier Representative Stam Representative Ross
HB 1252	Level Playing Field/Cities/Service Providers..	Representative Ty Harrell Representative Jones Representative Avila Representative Tillis

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at 14 o'clock on **April 14, 2009.**

- Principal Clerk
 Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, April 15, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Bills:

HB 1190 AN ACT TO CLARIFY AND STRENGTHEN THE LAW REGARDING THE PRESERVATION OF DNA AND BIOLOGICAL EVIDENCE THAT IS RELATED TO A CRIMINAL OFFENSE AND A DEFENDANT'S ACCESS TO THAT EVIDENCE.

HB 1252 AN ACT TO REGULATE COMPETITION BETWEEN LOCAL GOVERNMENT AND PRIVATE BUSINESS BY REQUIRING CITIES THAT PROVIDE COMMUNICATIONS SERVICES TO THE PUBLIC TO COMPLY WITH LAWS APPLICABLE TO PRIVATE PROVIDERS, TO ESTABLISH SEPARATE ENTERPRISE FUNDS, TO NOT CROSS-SUBSIDIZE COMMUNICATIONS SERVICE WITH OTHER GOVERNMENTAL FUNDS, TO IMPUTE THE COSTS THAT WOULD BE INCURRED BY PRIVATE PROVIDERS, TO ANNUALLY REMIT TO THE CITY'S GENERAL FUND THE COSTS THAT WOULD BE INCURRED BY PRIVATE PROVIDERS, AND TO PREPARE AN ANNUAL AUDIT OF COMPETITIVE ACTIVITIES.

Adjournment

VISITOR REGISTRATION SHEET

Science & Tech

4.15.2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME	FIRM OR AGENCY AND ADDRESS
Pam Meyer	NCLM
Kelli Kuhn	NCLM
Brenda Harrell	TOWN OF PINETOPS
VIVIAN JONES	MAYOR, TOWN OF WAKE FOREST
Estherine Davis	Electric Cities of NC
Catherine Rice	Seaton, TJCOS (old B&D); NashKady
Brad Phillips	TWC
Tommy Roberson	TWC
FRANK RADER	Commissioner, Town of Mooresville
CHARLES PITTMAN	C-NC AUTHORITY
John Herrera	Mayor Pro Temp Town of Carrboro

VISITOR REGISTRATION SHEET

Science + Technology
Name of Committee

4-15-09
Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME	FIRM OR AGENCY AND ADDRESS
Dr. Sandi Maus	Doctor OF THE DAY
David W Treme	City of Salisbury, City manager
SUSAN KLUTTZ,	Mayor, City of Salisbury
Doug Paris	Asst. City Manager, City of Salisbury
Michael Crowell	Director of Broadband Services, City of Salisbury
GRANT GOINGS	WILSON CITY MANAGER
Prin Brown	City of Wilson
Allison Cooper	RW Attorneys, P.A.
Steve Brewer	EMBARQ
Marty Bocock	" "
Maras Tratten	Brooks PACE

House Pages

Science & Tech

Name Of Committee: _____

Date: 4.15.2009

1. Name: Josh Chappell

County: Wayne

Sponsor: Efton Sager

2. Name: John Manigo

County: Cumberland

Sponsor: Floyd

3. Name: _____

County: _____

Sponsor: _____

4. Name: _____

County: _____

Sponsor: _____

5. Name: _____

County: _____

Sponsor: _____

Sgt-At-Arms

1. Name: John Brandon

2. Name: Earl Coker

3. Name: Carlton Adams

4. Name: _____

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, April 22, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, April 22, 2009 in room 425LOB at 11:04AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Gulley, Jones and Tolson, Vice-Chairs; and Representatives Blue, England, Haire, Hall, Johnson and Tillis.

Chairman Harrell called the meeting to order and recognized the Pages and Sargent-at-Arms.

Chairman Harrell called upon Rep. Glazier to present information on his bill, HB 1190.

Rep. Glazier briefly explained the bill. Chairman Harrell noted that the bill is a PCS and requested a motion from the committee.

Rep. Haire made a motion to adopt the PCS. The motion passed.

Rep. Haire was recognized for a question and Rep. Glazier replied. Rep. Haire was recognized for a follow-up and Rep. Glazier replied. Rep. Haire then provided a comment.

Rep. Jones moved for a favorable report to the PCS, unfavorable to the original, and to move to Judiciary II. The motion passed.

Chairman Harrell then called upon Vice Chair Tolson to chair the meeting as Chairman Harrell's bill (HB1252) was being heard next.

Chairman Tolson clarified that the bill is a PCS. Rep. Harrell agreed. Chairman Tolson recognized a motion from Rep. Tillis for the PCS to be put to the committee for discussion. The motion passed.

Chairman Tolson asked for an explanation of the PCS, Rep. Harrell asked staff member Brenda Carter to explain the differences and provide a summation, which she did. Rep. Jones asked a question of Ms. Carter, and she replied.

Chairman Tolson asked for further comments or questions from the committee.

Chairman Tolson recognized Rep. Tillis for a comment.

Chairman Tolson recognized Vice Chair Avila for a question. Rep. Harrell replied. Vice Chair Avila was recognized for a follow-up. Ms. Carter replied. Rep. Tillis was then recognized for a comment.

Chairman Tolson asked for other questions from the committee.

Chairman Tolson recognized Rep. Haire for a comment. Rep. Haire indicated he wanted to prepare an amendment, which staff began to prepare.

Chairman Tolson recognized Vice Chair Avila for a question. Rep. Harrell replied and asked for Brad Phillips, a visitor and president of the North Carolina Cable Association, to reply to Vice Chair Avila's question. Chairman Tolson asked Mr. Phillips to address the committee from the podium, which he did. Rep. Haire questioned Mr. Phillips and he replied. Chairman Tolson called for other questions for Mr. Phillips from the committee.

Chairman Tolson then asked Rep. Haire to explain his amendment (pg.3, lines 7-9), which he did. Chairman Tolson called for questions from the committee. Vice Chair Avila was recognized for a question. Ms. Carter replied. Rep. Avila asked a question and Rep. Tillis was recognized for a reply. Rep. Blue was recognized for a question. Chairman Tolson asked Marcus Trathan, a visitor and attorney for the NC Cable Association, for a reply from the podium. Rep. Blue was recognized twice for a follow-up, and Mr. Trathan replied each time. Rep. Jones was recognized twice for a comment, and each time Mr. Trathan replied. Vice Chair Avila was recognized for a question of Mr. Trathan, who replied. Rep. England was recognized for a question of Mr. Trathan, who replied. Rep. Hall was recognized for a question of Mr. Trathan, who replied. Rep. Haire was recognized for a comment. Vice Chair Avila was recognized for a question, Mr. Trathan replied. Vice Chair Avila was recognized for a follow-up, Mr. Trathan replied. Vice Chair Avila was recognized for a follow-up and Rep. Tillis was recognized for a reply.

Chairman Tolson then recognized Rep. Haire for a motion. Rep. Haire moves to approve his amendment. Chairman Tolson recognizes Rep. Harrell for a comment. Chairman Tolson asked for a vote on the motion. The motion passed.

Rep. Tillis is recognized by Chairman Tolson, and motions for a favorable report to the PCS as amended, unfavorable to the original.

Chairman Tolson asked for discussion on the motion.

The Chairman recognized Kelli Kukura, Director of Government Affairs for the North Carolina League of Municipalities. Ms. Kukura expressed opposition to the bill.

The Chairman recognized Mayor Kluttz of Salisbury. Mayor Kluttz expressed opposition to the bill.

The Chairman recognized Mayor Rose of Wilson. Mayor Rose expressed opposition to the bill.

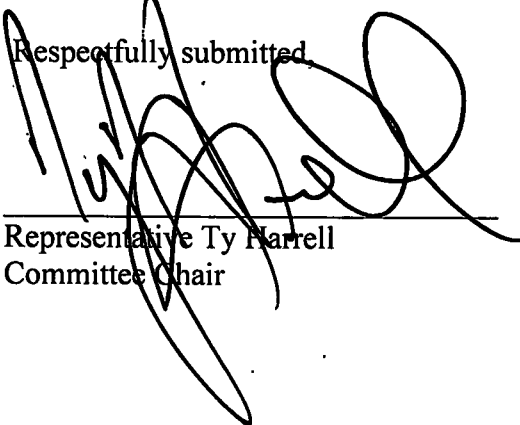
The Chairman recognized Kevin Krufky, attorney for Alcatel-Lucent. Mr. Krufky expressed opposition to the bill.

Chairman Tolson recognized Rep. Jones for a question of Mr. Krufky, who replied.

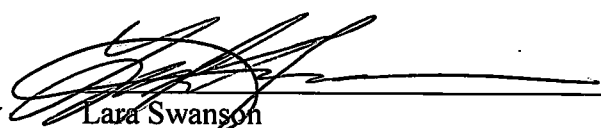
Chairman Tolson reminded the committee of Rep. Tillis' motion. The Chairman indicated to Rep. Tillis that his motion would need to refer to Public Utilities Committee and Rep. Tillis agreed. Rep. Haire was recognized and called for a substitute motion, referred to Public Utilities without prejudice. Rep. Harrell was recognized for a comment. Chairman Tolson called for a vote on the substitute motion. The substitute motion passed.

The meeting then adjourned at 11:50 AM.

Respectfully submitted,



Representative Ty Harrell
Committee Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, April 22, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS:

The following bills will be considered:

BILL NO.	SHORT TITLE	SPONSOR
HB 1190	Preservation of DNA & Biological Evidence.	Representative Glazier Representative Stam Representative Ross
HB 1252	Level Playing Field/Cities/Service Providers.	Representative Ty Harrell Representative Jones Representative Avila Representative Tillis

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at 9 o'clock on **April 20, 2009**.

- Principal Clerk
 Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, April 22, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Bills:

HB 1190 AN ACT TO CLARIFY AND STRENGTHEN THE LAW REGARDING THE PRESERVATION OF DNA AND BIOLOGICAL EVIDENCE THAT IS RELATED TO A CRIMINAL OFFENSE AND A DEFENDANT'S ACCESS TO THAT EVIDENCE.

HB 1252 AN ACT TO REGULATE COMPETITION BETWEEN LOCAL GOVERNMENT AND PRIVATE BUSINESS BY REQUIRING CITIES THAT PROVIDE COMMUNICATIONS SERVICES TO THE PUBLIC TO COMPLY WITH LAWS APPLICABLE TO PRIVATE PROVIDERS, TO ESTABLISH SEPARATE ENTERPRISE FUNDS, TO NOT CROSS-SUBSIDIZE COMMUNICATIONS SERVICE WITH OTHER GOVERNMENTAL FUNDS, TO IMPUTE THE COSTS THAT WOULD BE INCURRED BY PRIVATE PROVIDERS, TO ANNUALLY REMIT TO THE CITY'S GENERAL FUND THE COSTS THAT WOULD BE INCURRED BY PRIVATE PROVIDERS, AND TO PREPARE AN ANNUAL AUDIT OF COMPETITIVE ACTIVITIES.

Adjournment

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND
TECHNOLOGY.

Committee Substitute for

HB 1252 A BILL TO BE ENTITLED AN ACT TO REGULATE COMPETITION BETWEEN LOCAL GOVERNMENT AND PRIVATE BUSINESS BY REQUIRING CITIES THAT PROVIDE COMMUNICATIONS SERVICES TO THE PUBLIC TO COMPLY WITH LAWS APPLICABLE TO PRIVATE PROVIDERS, TO ESTABLISH SEPARATE ENTERPRISE FUNDS, TO NOT CROSS-SUBSIDIZE COMMUNICATIONS SERVICE WITH OTHER GOVERNMENTAL FUNDS, TO IMPUTE THE COSTS THAT WOULD BE INCURRED BY PRIVATE PROVIDERS, TO ANNUALLY REMIT TO THE CITY'S GENERAL FUND THE COSTS THAT WOULD BE INCURRED BY PRIVATE PROVIDERS, AND TO PREPARE AN ANNUAL AUDIT OF COMPETITIVE ACTIVITIES.

Without prejudice as to the committee substitute bill, unfavorable as to the original bill, and recommendation that the committee substitute bill be re-referred to the Committee on PUBLIC UTILITIES.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ Pursuant to Rule 36(b), the (House/Senate) committee substitute bill/(joint) resolution (No. _____) is placed on the Calendar of _____. (The original bill resolution No. _____) is placed on the Unfavorable Calendar.

_____ The (House) committee substitute bill/(joint) resolution (No. _____) is re-referred to the Committee on _____. (The original bill/resolution) (House/Senate Committee Substitute Bill/(Joint) resolution No. _____) is placed on the Unfavorable Calendar.

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND
TECHNOLOGY.

Committee Substitute for

HB 1190 A BILL TO BE ENTITLED AN ACT TO CLARIFY AND STRENGTHEN THE LAW REGARDING THE PRESERVATION OF DNA AND BIOLOGICAL EVIDENCE THAT IS RELATED TO A CRIMINAL OFFENSE AND A DEFENDANT'S ACCESS TO THAT EVIDENCE.

With a favorable report as to the committee substitute bill, unfavorable as to the original bill, and recommendation that the committee substitute bill be re-referred to the Committee on JUDICIARY II.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ Pursuant to Rule 36(b), the (House/Senate) committee substitute bill/(joint) resolution (No. _____) is placed on the Calendar of _____. (The original bill resolution No. _____) is placed on the Unfavorable Calendar.

_____ The (House) committee substitute bill/(joint) resolution (No. _____) is re-referred to the Committee on _____. (The original bill/resolution) (House/Senate Committee Substitute Bill/(Joint) resolution No. _____) is placed on the Unfavorable Calendar.

House Pages

Name of Committee: _____ Date: 4-22-09

1. Name: Billy Cox
County: SAMPSON

Sponsor: TARHEEL ACADEMY

2. Name: Sarah Fogleman

County: Sampson

Sponsor: TCA

3. Name: _____

County: _____

Sponsor: _____

4. Name: _____

County: _____

Sponsor: _____

5. Name: _____

County: _____

Sponsor: _____

Sgt.-At-Arms

1. Name: Charles Williams

2. Name: Earl Coker

3. Name: Martha Paris

4. Name: _____

VISITOR REGISTRATION SHEET

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Geon Lawrence	City of Jacksonville
Andy Deane	City of Jacksonville
V. G. Fullerton	City of Jacksonville
Chris Hollis	KVL Water
Angie Bailey	The e-NC Authority
Steve Brewer	EMBARQ
Marty Bocock	EMBARQ
John Mettisto	NC Charter
Donna J. J. J.	Public Works ^{City of Jacksonville}

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

April 22, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

JOHN SHAW	
Doc Willis	N.C. TELCO ASSOCIATION
Frank Rader	COMMISSIONER, TOWN of Mooresville
Daniel Ambrose	Electr. Cities of N.C.
Michelle Frazier	MF+S
Melissa Trout	NCAAC
EVAN WEBSTER	MI-Connection
VINES COBB	TOWN OF PINETOPS
Jeff Gray	RKW ATTORNEYS, P.A. (City of Wilson)
Brenda Hance	Town of Pinetops
Deah S. Vines	Town of Pinetops

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

April 22, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Brian Bowman	City of Wilson
Jim Cauley	Rose Road Wallace for City of Wilson
Bruce Dace, Mayor	City of Wilson
GRANT BOINGS	CITY OF WILSON
Kelli Kulkama	NCLM
Michael Crowell	City of Salisbury
Dave Trueme	"
DOUG PARIS	"
Mayor Susan Klutze	"
Kemuel Hinton	NCUC staff
Daniel Long	"

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

April 22, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME	FIRM OR AGENCY AND ADDRESS
Jennifer McCain	Alcatel - Lucent
Bill Scobbin	KLG
Kevin Kruffy	AZU
Marc Trott	BPMAL
Brad Phillips	TWC
Jack Stanley	TWC
Sammy Robinson	TWC
Mark Park	BPMAL
Lynn Holmes	RHC / NCTA
Connie Wilson	NCCTA
MARK TURNER	RALEIGH EAST CAC

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

April 22, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Debra Henzey	PO Box 1809 - Pittsboro 27531 Chatham County Government
Ma H Shaw	Wilson Daily Times Wilson NC 27893
CHARLES PITTMAN	5631 PICNIC ROCK LAKE RALEIGH, NC 27613
GRANT SPARKS	CITY OF JACKSONVILLE BOX 128, 815 New Budge ST JACKSONVILLE, NC 28540
Bill King	auto
Herd Crumh	AT & T
Thom Moore	Administration
Norm Graves	Rep Hall
Tom Coley	CWA
Curtis Shew Jr	CWA
Bill Joe Famer	City of Jacksonville

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, April 29, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, April 29, 2009 in room 425LOB at 11:01AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Gulley, Jones and Tolson, Vice-Chairs; and Representatives England, Haire, Hall, Johnson and Stevens.

Chairman Harrell called the meeting to order and recognized the Pages and Sargent-at-Arms.

Chairman Harrell notes that as the representative for HB 1331, the committee will hear that bill later in the meeting.

Chairman Harrell called Rep. Spear to the podium and he spoke about his bill, HB 1438.

Chairman Harrell then called a visitor to the podium to speak on the bill, Bob Brenson, Technology Manger for the NC Department of Corrections.

Chairman Harrell then called for questions from the committee. Vice Chair Avila was recognized for a question, and Mr. Brenson and Rep. Spear replied. Vice Chair Tolson was recognized for a question, and Mr. Brenson replied, he was then recognized for a follow-up. Rep. Haire was recognized for a question. Chairman Harrell then called a visitor to the podium for a response, Greg Stall, Division of County Courts. Chairman Harrell then questioned Mr. Stall, and he replied. Rep. Hall was recognized for a question and follow-up, and Mr. Brenson replied to both, then Mr. Stall replied.

Vice Chair Tolson was recognized by the Chair and then indicated he wanted to make a motion. The Chair asked him to hold the motion.

Rep. Haire was recognized for a follow-up and Mr. Stall replied. Vice Chair Avila was recognized for a question and Rep. Spears replied.

Vice Chair Tolson was then recognized for a motion for a favorable report.

Vice Chair Jones was recognized for a question and Rep. Spear replied. Chairman Harrell then called a visitor to the podium for a response, Sarah Preston.

Vice Chair Tolson was then recognized and made a motion for a favorable report on bill with a referral to Judiciary II. The motion passed.

Chairman Harrell then called on Rep. Dickson to present on her bill, HB 1331. Chairman Harrell called a visitor to the podium to speak on the bill, Dr. Joann Kurtzberg, of Duke

University. Chairman Harrell then called another visitor to the podium to speak on the bill, Anne Langer of Cord Blood Registry.

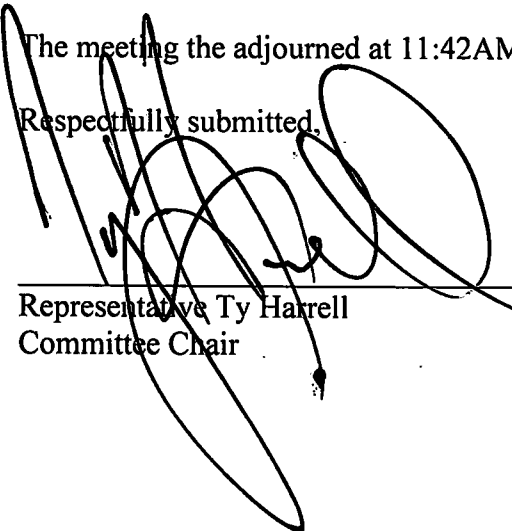
Vice Chair Jones was recognized by Chairman Harrell, and made a motion for a favorable report on HB 1331 with a referral to Health. Rep. Haire was recognized for a question, Chairman Harrell replied. The motion passed.

Chairman Harrell requests a motion to recognize the PCS for HB 1282. Rep. Hall motion to adopt the PCS and the motion passed.

Chairman Harrell called Rep. Underhill to the podium and she spoke about her PCS for HB1282. Rep. Tolson was then recognized for a motion favorable to the PCS, unfavorable to the original, and referred to Appropriations. The motion passed.

The meeting the adjourned at 11:42AM.

Respectfully submitted,



Representative Ty Harrell
Committee Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

AMMENDED NOTICE BILLS ADDED – HB 1282, HB 1438, HB 1497

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, April 29, 2009

TIME: 11:00 am.

LOCATION: 425 LOB

COMMENTS:

The following bills will be considered:

BILL NO.	SHORT TITLE	SPONSOR
HB 1282	CCPS Study Automated Pawn System.	Representative Underhill
HB 1331	Educate the Public About Cord Blood Banking.	Representative Dickson
HB 1438	Videoconference Tech. in Court Proceedings.	Representative Spear Representative Warren Representative Sutton Representative Randleman
HB 1497	Spectral Fluorescence Signature Drug Analysis.	Representative Warren Representative Spear

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at 9 o'clock on **April 28, 2009**.

- Principal Clerk
 Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND TECHNOLOGY.

Committee Substitute for

HB 1282 A BILL TO BE ENTITLED AN ACT TO DIRECT THE DEPARTMENT OF CRIME CONTROL AND PUBLIC SAFETY TO STUDY THE FEASIBILITY OF CREATING AN AUTOMATED PAWN TRANSACTION DATABASE SYSTEM AS PART OF THE CRIMINAL JUSTICE INFORMATION SYSTEM.

With a favorable report as to the committee substitute bill, which changes the title, unfavorable as to the original bill, and recommendation that the committee substitute bill be re-referred to the Committee on APPROPRIATIONS.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ Pursuant to Rule 36(b), the (House/Senate) committee substitute bill/(joint) resolution (No. _____) is placed on the Calendar of _____. (The original bill resolution No. _____) is placed on the Unfavorable Calendar.

_____ The (House) committee substitute bill/(joint) resolution (No. _____) is re-referred to the Committee on _____. (The original bill/resolution) (House/Senate Committee Substitute Bill/(Joint) resolution No. _____) is placed on the Unfavorable Calendar.

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND
TECHNOLOGY.

Committee Substitute for

HB 1438 A BILL TO BE ENTITLED AN ACT TO PROVIDE FOR A PILOT PROGRAM TO DETERMINE THE EFFECTIVENESS OF USING VIDEOCONFERENCE TECHNOLOGY TO CONDUCT COURT PROCEEDINGS, OTHER THAN TRIALS, INVOLVING PERSONS IN THE CUSTODY OF THE DEPARTMENT OF CORRECTION AND IN LOCAL CONFINEMENT FACILITIES.

With a favorable report and recommendation that the bill be re-referred to the Committee on JUDICIARY II.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ The bill/resolution is re-referred to the Committee on _____.

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND TECHNOLOGY.

Committee Substitute for

HB 1331 A BILL TO BE ENTITLED AN ACT TO REQUIRE THE DEPARTMENT OF HEALTH AND HUMAN SERVICES TO MAKE AVAILABLE TO THE PUBLIC, AND TO ENCOURAGE HEALTH CARE PROFESSIONALS TO MAKE AVAILABLE TO PREGNANT PATIENTS, EDUCATIONAL INFORMATION REGARDING UMBILICAL CORD STEM CELLS AND UMBILICAL CORD BLOOD BANKING.

With a favorable report and recommendation that the bill be re-referred to the Committee on HEALTH.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____

_____ The bill/resolution is re-referred to the Committee on _____

House Pages

Name of Committee: science & technology Date: 4-29-09

1. Name: Taylor Fossett

County: Union

Sponsor: Jim Gulley

2. Name: _____

County: _____

Sponsor: _____

3. Name: _____

County: _____

Sponsor: _____

4. Name: _____

County: _____

Sponsor: _____

5. Name: _____

County: _____

Sponsor: _____

Sgt-At-Arms

1. Name: Charles Williams

2. Name: Earl Coker

3. Name: James Worth

4. Name: _____

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

April 29, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Scott Hambleton	AWEK
Phil CARSON	Swain Co Bd. Comm.
DAVID MOJIBESTHA	SWAIN CO COMMISSIONER
Kevin King	Swain County
Norton Graves	Rep. Hall
Penny Huffer	School of Gov.
Elizabeth Duncan	WCSR
Cassandra White	AOC
Sarah Preston	ACLU-NC
John W. Smith	AOC
Greg Hall	AOC
Bob BRINSON	DOC
B & B Lewis	DOC

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

April 29, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

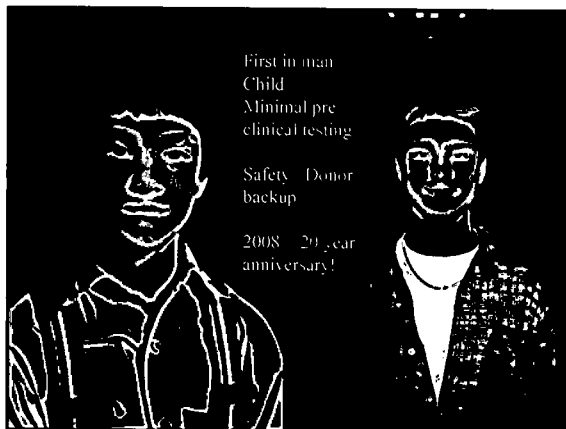
NAME	FIRM OR AGENCY AND ADDRESS
Mildred Spearman	NCDOC
ANN LANGER	CORD BLOOD REGISTRY 1000 BAYHILL DRIVE SAN BERNARDINO, CA 94066
PAMELA LIETZ	DUKE UNIVERSITY
Joanne Kurtzberg	Duke, Carolinas Cord Blood Bank
ANN LOE	DUKE
Mary Waters	CCPS
DAVID BARNES	Poyner Smith
Chip Kellin	Nelson Mullis
Colleen Kochanek	KLG
Linda Hays	DJJDP

An Overview of Cord Blood Banking and Transplantation

Jeanne Kurtzberg, MD
Pediatric Blood and Marrow Transplant Program
Cincinnati Cord Blood Bank
Duke University Medical Center

What is Cord Blood?

- ▣ Cord blood (CB) is the *baby's blood*, left over in the placenta (afterbirth);
- ▣ In the past, CB was discarded as medical waste;
- ▣ CB contains stem and progenitor cells;
- ▣ CB can be collected from the placenta after the birth of the baby and frozen and stored for future use.



CBT History

- 1st Transplant, NC child in France 1988
- 1st bank, NYBC 1992
- 1st unrelated transplant, Duke 1993
- Now >15,000 transplants
 - Malignancies, Hemoglobinopathies, immuneodeficiency, marrow failures, in herited metabolic diseases
- >100 banks worldwide
- Inventory ~100K US, 350K worldwide

Cord Blood Banking

- Public Banking
 - 1992 NYBC
 - 1996 COBLT
 - 1998 Netcord
 - 1999 NMDP
 - 2006 CW Bill Young CTP; NCBI
- Private Banking
- Directed donor or Sibling Banking

The Carolinas Cord Blood Bank

- Established 1997 through COBLT (NHLBI)
- Current inventory >20,000 units
- 8 collection sites in NC with access to ~30,000 births
- Staff collection model
- Units listed and distributed through NMDP
- ARC bank 1999-2001
- NMDP Member bank 2004
- CORD:USE Partnership, 2005
- FACT accreditation 2005, 2008
- NCBI Bank 2006
- Netcord Bank 2007

The Carolinas Cord Blood Bank

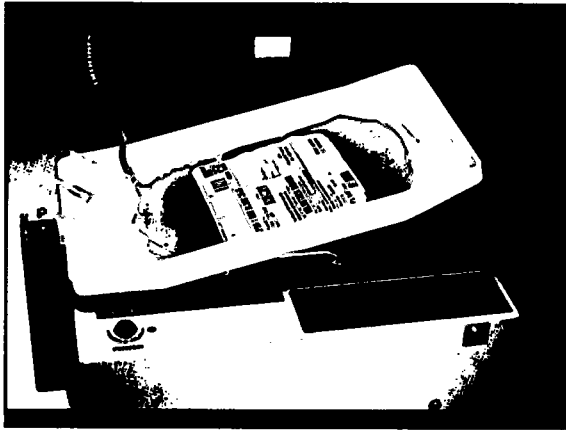
- Established 1997 through COBLT (NHLBI)
- Current inventory >20,000 units
- Kit model
- 8 staffed collection sites (7) in NC
 - Duke
 - Durham Regional Hospital
 - UNC Memorial Hospital
 - Rex Hospital
 - Greensboro Women's Hospital
 - Wake Med Cary
 - Womack Army Medical Center
 - Brigham and Womens Hospital
- ◆ Kit model for donors at non-collection sites

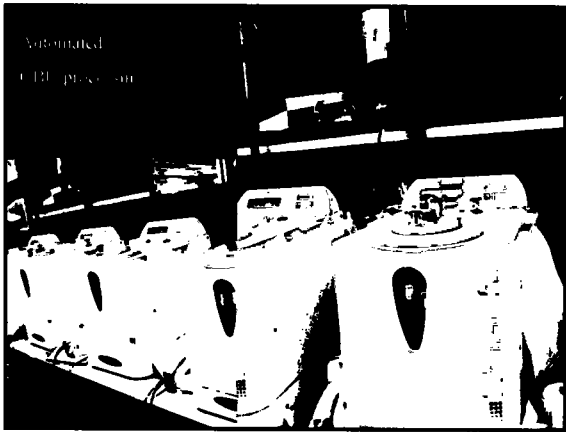
Aspects of Unrelated Donor UCB Banking

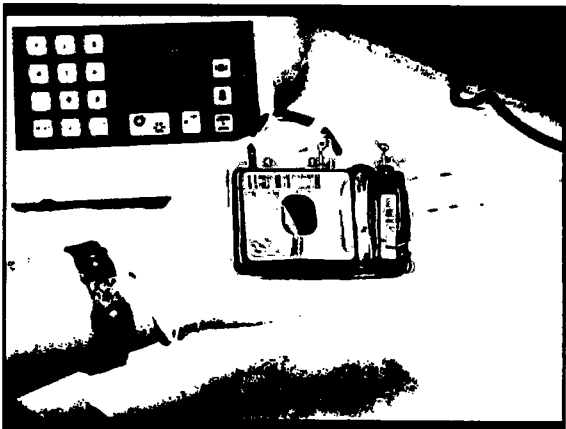
- Donor recruitment/screening/consent
- Collection
- Processing
- Testing
- Cryopreservation
- Quarantine and Release
- Long term storage
- Search and Registry Functions
- Shipping for transplantation, thawing training programs
- Outcomes analysis
- Quality management, proficiency

Informed Consent

- Donation is voluntary
- Sample of maternal blood for ID testing
Feedback of positive results to Mom, MD, State
- No guarantee unit will be banked
- Genetic disease testing
- Confidentiality
- Other options presented: Discard, Research, Private Banking







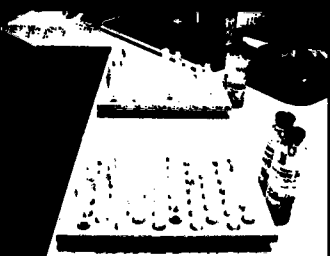


Tests Performed

- Counts
- Viability
- CD34
- CD3
- CFUs
- Sterility
- HLA
- Hemoglobinopathy
- IDMs maternal +/- cord blood
CMV IgG, IgM, DNA

Aspects of Unrelated Donor UCB Banking

- - Maternal
 - † DNA
 - † Plasma or serum
 - UCB
 - † DNA
 - † Plasma
 - † Cells in DMSO
 - † Segments

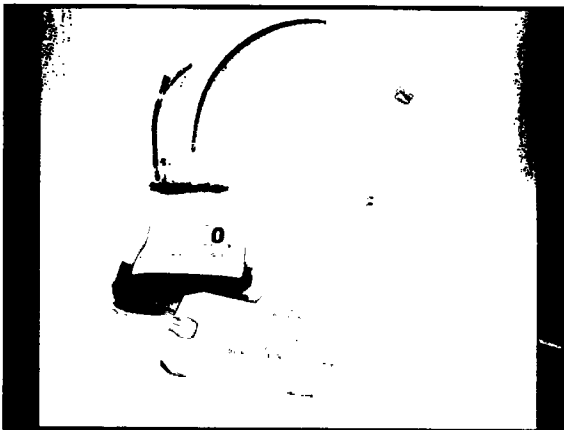


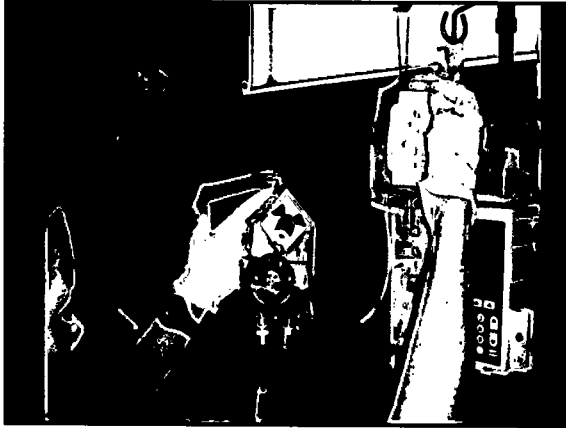
CBU Banking and Distribution

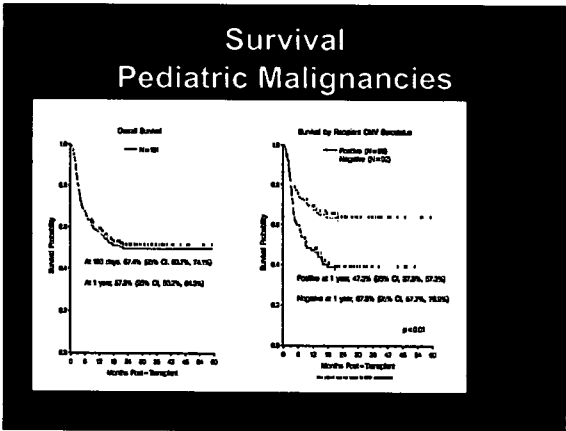
- ◆ Eligibility for banking
- ◆ Sign outs, listing on National Registry
- ◆ Provides access to donors for all patients undergoing consideration for transplantation
- ◆ Distributed through national registry

Dry Shippers







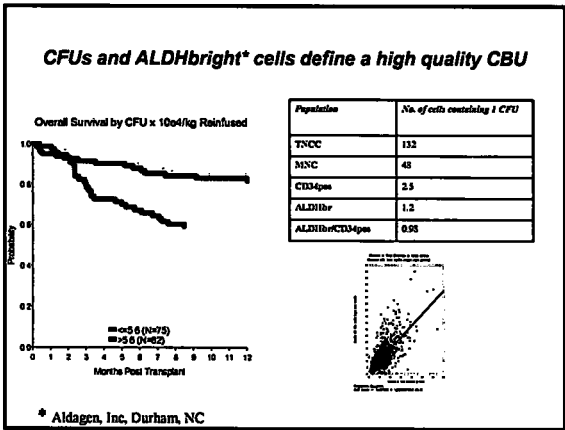


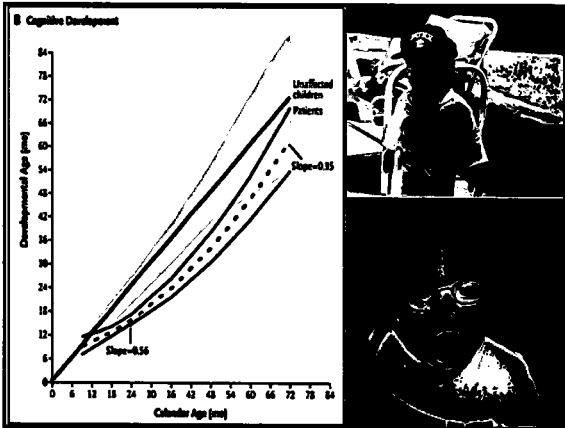
Correction of lethal hemoglobinopathies with UCB transplantation

Both sickle cell anemia and thalassemia major can be Cured with UCB transplantation early in life.

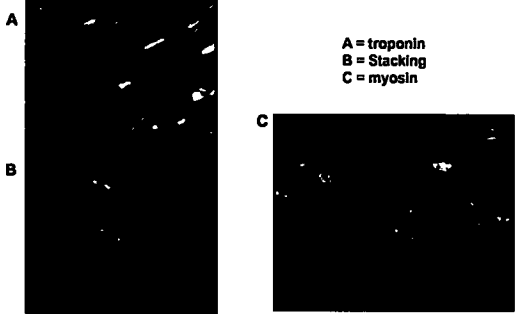
Christopher, transplanted At 2.5 months of age for Correction of thalassemia Major. Shown in Family portrait at age 1 year.







Differentiation of Donor Cells into Cardiac Myocytes





Engraftment of UCB cells in Brain

Central White Matter



Brain sections of a female Krabbe patient who died 1 year post-UCB. XY Fish demonstrates male (donor, blue dot) cells engrafting in and differentiating in brain.

Directed Donor Banking

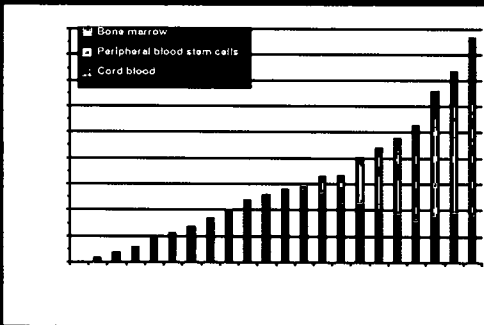
▣ Indications:

Biologic sibling with cancer, hemoglobinopathy, inborn error of metabolism, congenital RBC/WBC/Platelet disorder, congenital immunodeficiency

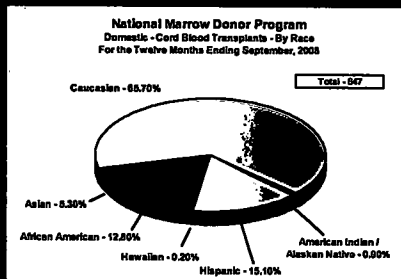
Baby with know congenital disorder potentially treatable with gene therapy, E.G. hemoglobinopathy, immunodeficiency

Transplants Performed

NMDP Facilitated 1987-2008



NMDP CB Transplants – Race, Domestic



Research

- ▣ Cord Blood Potency
- ▣ Augmentation of immune reconstitution
- ▣ Acquired and traumatic brain injury
 - HIE, CP, Stroke, Drowning, ECMO
- ▣ Type I Diabetes
- ▣ Cardiovascular Diseases
 - PVD, Ischemic Heart Diseases

Private vs Public Banking

- | | |
|-------------------------|-----------------------|
| ▣ Private | ▣ Public |
| Fee based | No cost to donor |
| Parent initiated | Higher quality |
| Saved for family | HRSA/HHS support |
| Varying Quality | Regulated |
| Minimal Regulations | FDA licensure pending |
| Few proven applications | |



Cord Blood and North Carolina

- 1st patient transplant with CB from Salisbury NC, 1988
- 1st unrelated donor CB transplant performed at Duke, 1993
- Largest CB transplant program at Duke
- NCBI public CB Bank: The Carolinas Cord Blood Bank
- Lead Investigators in CBB and CBT

Cord Blood and North Carolina

- The CCBB supports and practices education of all potential mothers;
- The CCBB *does not* support any legislation that requires Obs to collect for private donations other than directed donations until there is evidence to support the routine use of autologous cord blood in clinical practice.



Leadership for a Healthy Arizona



Arizona Department of Health Services
Office of Women's and Children's Health

150 North 18th Avenue
Phoenix, Arizona 85007

Phone: 602-364-1400
Fax: 602-364-1494

Medical information provided by Dr. Jordan Perlow



Umbilical Cord Blood



Important Information for Parents-To-Be About Umbilical Cord Blood

Umbilical Cord Blood

The State of Arizona recently passed a law requiring pregnant women to receive information about umbilical cord blood banking options. Umbilical cord blood banking is a relatively new procedure that saves lives. Now you have the chance to make a decision that could save the life of a family member, or someone else with a medical emergency. Please read the following information to learn more about the important medical options available to

What is cord blood?

After your baby is born, the umbilical cord is clamped and cut. The blood remains in the placenta and umbilical cord. In the past this blood commonly called cord blood was usually thrown away. We now know cord blood contains stem cells that can be used to help people with certain serious diseases. Now, families have three options available: discard the blood, donate it to a public cord bank, or retain it in a family cord blood bank. Cord blood that has been collected for storage at either a public cord blood bank or family cord blood bank is frozen and can be used when needed to help treat many serious diseases.

It is important to discuss questions regarding cord blood banking options with your health care provider as soon as possible during your pregnancy.

How can cord blood help?

The stem cells in cord blood are very important because they make many different types of cells in the body, including blood cells that carry oxygen, fight disease, and help stop bleeding. The stem cells in cord blood are primitive or undeveloped and can be transplanted in people to treat a number of life-threatening diseases. If needed, blood-forming cord blood stem cells can sometimes be used in autologous transplants (when a person receives his or her own umbilical cord blood) or more commonly, allogeneic transplants (when a person receives umbilical cord blood donated from someone else). A cord blood transplant does not need to be as perfectly matched to the person who receives it as in most other types of transplants. Because cord blood stem cells are more primitive, they have a lower rate of complications than with other stem cell transplants such as in bone marrow.

What disease can cord blood be used for?

There are more than 60 diseases that can now be helped through cord blood transplantation. These diseases include malignant and non-malignant conditions, such as blood cancers, rare inherited disorders of metabolism, immune diseases, and more. Treatment of these diseases using umbilical cord blood is not experimental. Cord blood transplantation has already helped thousands of people. There is ongoing research to find more diseases that can be helped by cord blood. While the research is still in the experimental stages, scientists are hopeful that one day cord blood transplantation will help in many heart, bone, liver, and brain diseases, even diseases like heart attack and stroke.

How is cord blood collected? Is it safe?

Collecting cord blood is completely safe for babies and mothers. It will not affect your baby's health or your birth experience because the blood is collected after your baby is born. The blood remaining in the umbilical cord is drained into a special collection bag and sent to the public or family cord blood bank you selected.

If you would like your baby's cord blood to be collected and stored for future use, you must make arrangements with either a public or family cord blood bank before the baby is born. When you contact a cord blood bank, they will send you information about cord blood collection and storage, forms to fill out, and a kit to take the hospital for your baby's birth.

What are the ways cord blood can be stored? What is the right decision for my family?

Types of Cord Blood Banks

Cord blood can be donated to a public cord blood bank for use by someone in need or stored at a family cord blood bank for your baby's or family's use. Donating your baby's cord blood or storing it for private use is a personal decision that you must make for yourself after discussion with your healthcare provider and after performing your own research. If you have a family member with leukemia or another disease that may be treatable by stem cell transplant, you should talk to their healthcare provider about the advisability of family cord blood banking, which would typically be performed under these circumstances without cost.

Public Cord Blood Banks

At this time, there is only one public cord blood bank in the United State available to accept cord blood donations from babies born in Arizona. They are Cryobanks International (1-800-869-8608). Public cord blood banks save and use cord blood for transplants to help people with one of the treatable diseases or for scientific research to learn more about the possible uses of cord blood. Transplants are anonymous and no information about you or your baby is given to the person receiving the cord blood. Donated cord blood becomes the property of the public cord blood bank. Before being accepted for donation, you will need to complete a health questionnaire to screen for genetic disorders and infectious diseases.

Family Cord Blood Banks

There are many family cord blood banks available for Arizona families who wish to save their baby's cord blood for potential future use. Using family cord blood banks, the family controls the use of the cord blood. Studies show there is less graft versus host disease complications and better survival rates when cord blood from a related source is transplanted. However, there is no guarantee that the saved cord blood will be able to be used in all situations. When making a decision about family cord blood banks, it is important to ask what the total cost is, how experienced the company is in cord blood banking, how experienced the company is in cord blood transplantation, if the company is financially sound, and what would happen if the company went out of business.

How much does it cost to donate or bank cord blood?

Donating cord blood to a public cord blood bank does not usually cost you any money. Ask your healthcare provider if there will be any charge to collect the blood. Family banking of cord blood for the baby's or family's future use usually costs between \$1,000 and \$2,000 at the time of the baby's birth. There will also be an annual storage fee of approximately \$100.



Where can I get more information about umbilical cord blood banking?

The March of Dimes

www.marchofdimes.com

**A Parent's Guide to
Cord Blood Banks**

www.parentsguidecordblood.com

**Arizona Department of
Health Services**

www.azdhs.gov/phs/owch

National Marrow Donor Program

www.marrow.org



MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, May 6, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, May 6, 2009 in room 425LOB at 11:07AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Gulley, Jones and Tolson, Vice-Chairs; and Representatives England, Haire, Stevens, and Tillis.

Chairman Harrell called the meeting to order and recognized the Pages and Sargent-at-Arms.

Chairman Harrell called Vice-Chair Jones to the podium to present his bill, H 1381. Rep. Jones requested that the bill be pulled from the committee calendar and stated it would instead be turned into a study bill. As the bill was pulled from the calendar there was no further discussion.

Chairman Harrell then asked Vice-Chair Jones to temporarily Chair the committee as his bill was next on the calendar. Chairman Jones asked Rep. Harrell to present his bill, H 1489. Rep. Harrell explained that the bill is supported by the Distilled Spirits Council of the United States and MADD (Mother's Against Drunk Driving). Rep. Tillis was then recognized for a comment, he indicated that he would like to make a motion at the appropriate time and commented on the bill. Rep Haire was then recognized for a comment and follow-up, both Rep. Harrell and Chairman Jones replied. Reps. Stevens, Avila, and Tillis were then recognized for comments. Staff member Susan Sitze, Research, next commented on the bill. Rep. Stevens was recognized for a comment, and she and Ms. Sitze had a brief discussion. Chairman Jones recognized Rep. Harrell, who then pulled the bill. There was no further discussion and Chairman Harrell resumed chairing the committee.

Chairman Harrell called Rep. Tolson to the podium and he presented his bill, H 1488. Rep. Tolson asked committee staff member Peter Capriglione, ISD, to comment on the bill. Mr. Capriglione described the successful use of electronic forms in Illinois. Rep. Tolson then described the bill further. Rep. Avila was recognized and made a motion for a favorable report of 1488 with a referral to Appropriations. The motion passed.

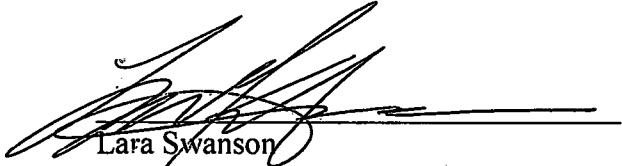
Chairman Harrell then called Rep. Mackey to the podium and he presented his bill, H 1261. Chairman Harrell asked a question of Rep. Mackey, and he replied. Vice Chair Avila and Rep. Haire were recognized for questions and follow-ups, and Rep. Mackey replied to each. Vice Chair Jones was recognized for a comment as was Rep. England. Rep. Avila was recognized and made a motion for a favorable report of 1261, with a referral to Judiciary III. The motion passed

The meeting then adjourned at 11:45 AM.

Respectfully submitted,



Representative Ty Harrell
Committee Chair



Lara Swanson
Committee Assistant

Agenda

House Committee on Science and Technology

Wednesday, May 6, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Bills:

HB 1381 AN ACT TO PROVIDE A CURE FOR DEFAMATION THROUGH AN ELECTRONIC MEDIUM.

HB 1488 AN ACT APPROPRIATING FUNDS TO THE OFFICE OF INFORMATION TECHNOLOGY SERVICES FOR ENTERPRISE ELECTRONIC FORM AND DIGITAL SIGNATURE SOLUTIONS FOR STATE AND LOCAL GOVERNMENT AND PUBLIC EDUCATIONAL INSTITUTIONS.

HB 1489 AN ACT TO REQUIRE ANYONE WHO IS CONVICTED OF DRIVING WHILE IMPAIRED, DRIVING AFTER CONSUMING ALCOHOL BEING LESS THAN TWENTY-ONE YEARS OF AGE, OR ANY OTHER IMPAIRED DRIVING OFFENSE, OR ANY PERSON WHO REFUSES A CHEMICAL ANALYSIS, TO HAVE AN IGNITION INTERLOCK SYSTEM INSTALLED ON EVERY VEHICLE THEY MAY DRIVE BEFORE THEY CAN GET A LIMITED DRIVING PRIVILEGE.

HB 1261 AN ACT PROTECTING CHILDREN OF THIS STATE BY MAKING CYBER BULLYING A CRIMINAL OFFENSE PUNISHABLE AS A CLASS 1 MISDEMEANOR.

Adjournment

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION
CORRECTED NOTICE
REMOVE HB 1085 and HB 1497
ADD HB 1261**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, May 6, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS:

The following bills will be considered:

ADD: HB 1261 Protect Our Kids/Cyber Bullying Misdemeanor. Representative Mackey
Representative Parmon

BILL NO.	SHORT TITLE	SPONSOR
HB 1085	Sci/Tech/Eng/Math Innovation Study Conn.	Representative Glazier Representative Dickson Representative Howard Representative Braxton
HB 1381	Internet Defamation.	Representative Jones
HB 1488	Funding for State Enterprise E-Form Solution.	Representative Ty Harrell Representative Tolson
HB 1489	Ignition Interlock-All DWI Offenders.	Representative Ty Harrell Representative Tillis
HB 1497	Spectral Fluorescence Signature Drug Analysis.	Representative Warren Representative Spear

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at
13 o'clock on **May 04, 2009**.

- Principal Clerk
 Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

VISITOR REGISTRATION SHEET

SCIENCE AND TECHNOLOGY

May 6, 2009

Name of Committee

Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Tracy Kimbrell	Parker Poe
Sharlini Sankaran	NC Dept of Commerce Office of Science & Tech
Lindsay Haslebacher	UNC student
Chris Telesco	SELF
JOHN SHAW	SELF
Charles Marshall	Brooks Pierce
Doug Miskew	Capstrat
Danny Linberry	ITS
Mark Molinaro	IBM
Emily Doyle	NCPAPA
Charlotte Boyd	DMV

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND TECHNOLOGY.

Committee Substitute for

HB 1488 A BILL TO BE ENTITLED AN ACT APPROPRIATING FUNDS TO THE OFFICE OF INFORMATION TECHNOLOGY SERVICES FOR ENTERPRISE ELECTRONIC FORM AND DIGITAL SIGNATURE SOLUTIONS FOR STATE AND LOCAL GOVERNMENT AND PUBLIC EDUCATIONAL INSTITUTIONS.

With a favorable report and recommendation that the bill be re-referred to the Committee on APPROPRIATIONS.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ The bill/resolution is re-referred to the Committee on _____.

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND TECHNOLOGY.

Committee Substitute for

HB 1261 A BILL TO BE ENTITLED AN ACT PROTECTING CHILDREN OF THIS STATE BY MAKING CYBER BULLYING A CRIMINAL OFFENSE PUNISHABLE AS A CLASS 1 MISDEMEANOR.

With a favorable report and recommendation that the bill be re-referred to the Committee on JUDICIARY III.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ The bill/resolution is re-referred to the Committee on _____.

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, May 13, 2009

Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, May 13, 2009 in room 425LOB at 11:03AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Jones and Tolson, Vice-Chairs; and Representatives Blue, England, Haire, Johnson, Stevens, and Tillis.

Chairman Harrell called the meeting to order and recognized the Pages and Sargent-at-Arms.

Chairman Harrell called Rep. Ray Warren to the podium and he spoke about his bill, H 1497. Vice Chair Avila was recognized for a motion to accept the PCS, the motion passed. Vice Chair Avila was recognized for a question and follow-up and Rep. Warren replied. Vice Chair Tolson was recognized for a question and Rep. Warren replied. Rep. Haire was recognized and stated he wanted to make a motion at the appropriate time. Reps. England and Johnson were then recognized for a question each and Rep. Warren replied to them. Chairman Harrell called for questions from any visitors and none were offered, he then asked a question of Rep. Warren, who replied. Rep. Haire was then recognized for a motion to give a favorable report to PCS 1497, unfavorable to the original and a re-referral to Judiciary III, and the motion passed.

Chairman Harrell called Sen. Hunt to the podium and he spoke about his bill, S 712. Rep. Tillis was recognized for a motion for a favorable report for S 712, and the motion passed.

Chairman Harrell called Rep. Blue to the podium and he spoke about his bill, H 1267. Rep. Tillis was recognized for a question and follow-up and Rep. Blue replied. Rep. Tillis was recognized and offered an amendment on page 1, line 23, that referred to the effective date of the bill. Rep. Blue agreed to the amendment. Rep. Blue then answered questions from recognized members, Vice Chair Avila, Rep. Tillis and Rep. Haire, respectively. Chairman Harrell then called upon a visitor to speak on the bill, Mr. Will Castleberry, National Director of State Public Policy for AOL. Vice Chair Avila was recognized for a question of Mr. Castleberry. Rep. Tillis was recognized for a motion to favorably accept the amendment, the motion passed. Rep. Tillis was also recognized for a motion for a favorable report as amended for H1267, and the motion passed.

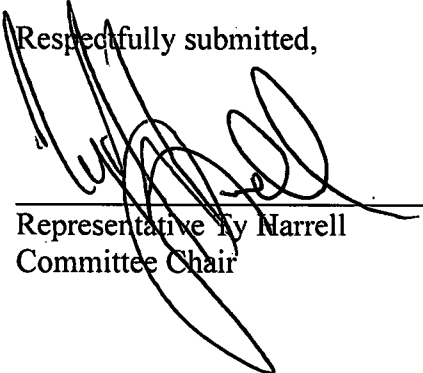
Chairman Harrell took a point of personal privilege to acknowledge the work of Rep. Blue in the NC House of Representatives and wish him well in his new role as NC State Senator.

Chairman Harrell then asked Vice Chair Jones to chair the meeting as his own bill was being heard next. Vice Chair Tolson was recognized for a motion to accept the PCS for H1489, the motion passed. Rep. Harrell then explained the bill to the committee. Chairman Jones called for questions. Vice Chair Avila was recognized for a comment

and indicated wanting to make a motion at the appropriate time. Rep. Haire was recognized for a comment and Rep. Harrell replied. Vice Chair Avila was recognized for a motion for a favorable report to PCS 1489, unfavorable to the original, and a referral to Judiciary III, the motion passed.

The meeting then adjourned at 11:50am.

Respectfully submitted,



Representative Ry Narrell
Committee Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION
CORRECTED NOTICE ADD HB 1497**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, May 13, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS:

The following bills will be considered:

ADD: HB 1497 Spectral Fluorescence Signature Drug Analysis. Rep. R. Warren

BILL NO.	SHORT TITLE	SPONSOR
HB 1267	Amend Liability of Social Networking Sites.	Representative Blue
HB 1489	Ignition Interlock-All DWI Offenders.	Representative Ty Harrell Representative Tillis
SB 712	State Surplus Property/ New Recipient.	Senator Hunt

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at 14 o'clock on **May 11, 2009**.

- Principal Clerk
 Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

Agenda

House Committee on Science and Technology

Wednesday, May 13, 2009

Call to Order, Rep. Harrell, Chair

Recognition of Pages and Sargent-At-Arms

Bills:

H1267 AN ACT TO AMEND THE LAW REGARDING LIABILITY OF A COMMERCIAL SOCIAL NETWORKING SITE TO PROVIDE THAT THE WEB SITE SHALL NOT BE HELD CIVILLY LIABLE FOR DAMAGES ARISING OUT OF COMMUNICATIONS ON THE WEB SITE IF THE WEB SITE MAKES A GOOD FAITH ATTEMPT TO SCREEN OUT USERS WHO ARE IN THE STATEWIDE SEX OFFENDER REGISTRY.

H1489 AN ACT TO REQUIRE ANYONE WHO IS CONVICTED OF DRIVING WHILE IMPAIRED, DRIVING AFTER CONSUMING ALCOHOL BEING LESS THAN TWENTY-ONE YEARS OF AGE, OR ANY OTHER IMPAIRED DRIVING OFFENSE, OR ANY PERSON WHO REFUSES A CHEMICAL ANALYSIS, TO HAVE AN IGNITION INTERLOCK SYSTEM INSTALLED ON EVERY VEHICLE THEY MAY DRIVE BEFORE THEY CAN GET A LIMITED DRIVING PRIVILEGE.

Adjournment

House Pages

SCIENCE & TECHNOLOGY

Name of Committee: _____ Date: 5-13-09

1. Name: Taylor Turnas

County: Randolph

Sponsor: Joe Hackney

2. Name: Rob Lytle (Not Little)

County: Colonial Heights VA

Sponsor: Joe Hackney

3. Name: Mitchell Marlowe

County: Springfield Gardens

Sponsor: Joe Hackney

4. Name: _____

County: _____

Sponsor: _____

5. Name: _____

County: _____

Sponsor: _____

Sgt-At-Arms

Name: Dusty Rhodes

1. Name: SEARLD PERRY

3. Name: YOUNG BAE

VISITOR REGISTRATION SHEET

Science + Technology
Name of Committee

5/13/09
Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME	FIRM OR AGENCY AND ADDRESS
HERO CRENSHAW	AT&T NORTH CAROLINA
Stacy Robertson	TWC
Curly Phillips	TWC
Mo Tatter	Boyd Perce
L Scobbin	ALG
NEAL HUNT	NC SENATE
Kim Branch	NC BA
Malony Hatcher	MWC
Charlotte Boyd	DMV
Debbie Jones	DMU
LaBaccara Coma	Cap Strat
Elizabeth Dalton	NERMA

VISITOR REGISTRATION SHEET

Science & Technology
Name of Committee

5/13/09
Date

VISITORS: PLEASE SIGN IN BELOW AND RETURN TO COMMITTEE CLERK

NAME

FIRM OR AGENCY AND ADDRESS

Monika Johnson Hestler	NCSST
Jennifer Sasser	Williams Mullen
Will CASTLEBERRY	AOC
IKE Avery	The Avery, PC
KRISTIN EDGERTON	MONITECH IGNITION INTERLOCK SYSTEMS
Craig Lloyd	MADD Motor Against Drunk Driving of NC
Sam Houston	NCSMT
Hannah Conland	DOC-DCC
David Venable	Lawyer
CHRIS BROOKS	DOT/DMV
JAMES NIEDERMAN	WNCT-TV

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND TECHNOLOGY.

Committee Substitute for

HB 1489 A BILL TO BE ENTITLED AN ACT TO REQUIRE ANYONE WHO IS CONVICTED OF DRIVING WHILE IMPAIRED, DRIVING AFTER CONSUMING ALCOHOL BEING LESS THAN TWENTY-ONE YEARS OF AGE, OR ANY OTHER IMPAIRED DRIVING OFFENSE, OR ANY PERSON WHO REFUSES A CHEMICAL ANALYSIS, TO HAVE AN IGNITION INTERLOCK SYSTEM INSTALLED ON EVERY VEHICLE THEY MAY DRIVE BEFORE THEY CAN GET A LIMITED DRIVING PRIVILEGE.

With a favorable report as to the committee substitute bill, which changes the title, unfavorable as to the original bill, and recommendation that the committee substitute bill be re-referred to the Committee on JUDICIARY III.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ Pursuant to Rule 36(b), the (House/Senate) committee substitute bill/(joint) resolution (No. _____) is placed on the Calendar of _____. (The original bill resolution No. _____) is placed on the Unfavorable Calendar.

_____ The (House) committee substitute bill/(joint) resolution (No. _____) is re-referred to the Committee on _____. (The original bill/resolution) (House/Senate Committee Substitute Bill/(Joint) resolution No. _____) is placed on the Unfavorable Calendar.

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND TECHNOLOGY.

Committee Substitute for

HB 1497 A BILL TO BE ENTITLED AN ACT TO PROVIDE THAT THE RESULTS OF A SPECTRAL FLORESCENCE SIGNATURE ANALYSIS WITH REGARD AS TO WHETHER A SUBSTANCE IS A DRUG ARE ADMISSIBLE IN EVIDENCE IN COURT, TO REQUIRE A PERMIT TO CONDUCT A SPECTRAL FLORESCENCE SIGNATURE ANALYSIS, AND TO DIRECT THE DEPARTMENT OF HEALTH AND HUMAN SERVICES TO ESTABLISH AND ADMINISTER A PERMIT PROGRAM FOR THE PRACTICE OF SPECTRAL FLORESCENCE SIGNATURE ANALYSIS.

With a favorable report as to the committee substitute bill, unfavorable as to the original bill, and recommendation that the committee substitute bill be re-referred to the Committee on JUDICIARY III.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ Pursuant to Rule 36(b), the (House/Senate) committee substitute bill/(joint) resolution (No. _____) is placed on the Calendar of _____. (The original bill resolution No. _____) is placed on the Unfavorable Calendar.

_____ The (House) committee substitute bill/(joint) resolution (No. _____) is re-referred to the Committee on _____. (The original bill/resolution) (House/Senate Committee Substitute Bill/(Joint) resolution No. _____) is placed on the Unfavorable Calendar.

**2009 COMMITTEE REPORT
HOUSE OF REPRESENTATIVES**

The following report(s) from standing committee(s) is/are presented:

By Representative Harrell (Chair) for the Committee on SCIENCE AND TECHNOLOGY.

Committee Substitute for

SB 712 A BILL TO BE ENTITLED AN ACT AUTHORIZING THE DEPARTMENT OF ADMINISTRATION TO DISTRIBUTE STATE SURPLUS PROPERTY TO FURBISHERS OF COMPUTERS FOR STUDENTS IN GRADES KINDERGARTEN THROUGH TWELVE.

With a favorable report and recommendation that the bill be re-referred to the Committee on STATE GOVERNMENT/STATE PERSONNEL.

(FOR JOURNAL USE ONLY)

_____ Pursuant to Rule 32(a), the bill/resolution is re-referred to the Committee on _____.

_____ The bill/resolution is re-referred to the Committee on _____.

MINUTES
HOUSE COMMITTEE ON SCIENCE AND TECHNOLOGY
Wednesday, June 3, 2009

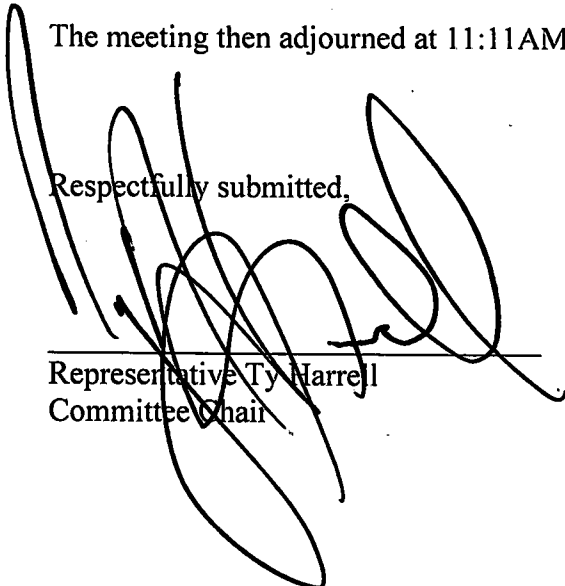
Upon call of the Chair, the House Committee on Science and Technology met on Wednesday, June 3, 2009 in room 425LOB at 11:07 AM. The following members were present: Representative Ty Harrell, Chair; Representatives Avila, Vice-Chair; and Representatives Hall, Gulley and Stevens.

Chairman Harrell called the meeting to order and recognized the Pages and Sargent-at-Arms.

Chairman Harrell called Rep. Tucker to the podium and he spoke about bill S484. Rep. Stevens was then recognized for a motion for a favorable report for S484. Chairman Harrell called for questions or comments. Chairman Harrell then asked for a vote from the members and the motion passed.

The meeting then adjourned at 11:11AM.

Respectfully submitted,



Representative Ty Harrell
Committee Chair



Lara Swanson
Committee Assistant

**NORTH CAROLINA HOUSE OF REPRESENTATIVES
COMMITTEE MEETING NOTICE
AND
BILL SPONSOR NOTIFICATION
2009-2010 SESSION**

You are hereby notified that the Committee on **Science and Technology** will meet as follows:

DAY & DATE: Wednesday, June 3, 2009

TIME: 11:00 am

LOCATION: 425 LOB

COMMENTS:

The following bills will be considered:

BILL NO.	SHORT TITLE	SPONSOR
SB 484	Auditor Ex Officio Duties.	Senator Clodfelter

Respectfully,
Representative Harrell, Chair

I hereby certify this notice was filed by the committee assistant at the following offices at 12 o'clock on **June 01, 2009**.

- Principal Clerk
- Reading Clerk – House Chamber

Lara Swanson (Committee Assistant)

House Pages

Name of Committee: Science/Technology Date: JUNE 3, 2009

1. Name: Haley Ross

County: Vance

Sponsor: Rep. Crawford

2. Name: Catherine Strickland

County: Sampson

Sponsor: Bell

3. Name: _____

County: _____

Sponsor: _____

4. Name: _____

County: _____

Sponsor: _____

5. Name: _____

County: _____

Sponsor: _____

Sgt-Ai-Arms

Name: Toussaint L. AVENT

2. Name: JOHN BRANDON

3. Name: EARL COTER