

**2013 SENATE EDUCATION**

**SCR 4015**

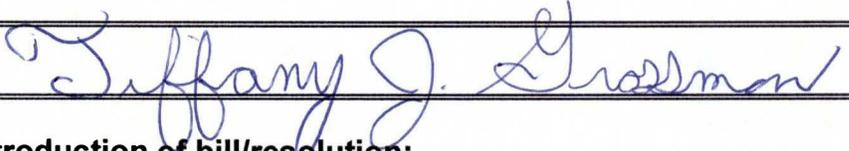
# 2013 SENATE STANDING COMMITTEE MINUTES

Senate Education Committee  
Missouri River Room, State Capitol

SCR 4015  
2-12-13  
18765

Conference Committee

Committee Clerk Signature



## Explanation or reason for introduction of bill/resolution:

A concurrent resolution urging the Department of Career and Technical Education to identify programs and initiatives in the fields of science, technology, engineering, and mathematics, and identify opportunities for coordinated public and private sector participation

## Minutes:

You may make reference to "attached testimony."

**Chairman Flakoll:** opened the hearing on SCR 4015

**Senator Holmberg:** This says we believe and support the technology movement in our state. There are suggestions that we should be looking at steam instead of stem but this is looking at stem and hope you will give this a favorable recommendation

**Wayne Kutzer, Director of the Department of Career and Technical Education:** I wish to support SCR 4015 (Written Testimony #1 attached) (5:50)

**Sandi Tabor, VP of Government Affairs for the Lignite Energy Council:** The Empower North Dakota Commission has this as one of its key areas for this session. We identified the four main components all energy resources need in order to move forward as a state. Workforce training was one and stem is a key component of that. We like the idea of pulling the stem together. There needs to be a coordinated effort throughout the state. We are supportive of this bill. We urge a do pass.

**Deana Wiese, executive director of the Information Technology Council of North Dakota:** I wish to support SCR 4015 (Written Testimony #2 attached)

**John Godfrey, Greater North Dakota Chamber:** We stand in support today of this resolution before you. We have recently been getting more involved in the educational sector of this state as the workforce needs have changed. There is a lack of a bridge between the private sector in education and this resolution would seek to address that.

**Chairman Flakoll:** Closed the hearing on SCR 4015

**Vice Chairman Schaible: Move a Do Pass on SCR 4015**

**Senator Poolman: Second**

**A roll call vote was taken for a Do pass on SCR 4015: 6 yeas, 0 neas, 0 absent**

**Senator Marcellais: will carry**

4015

Date: 2-12-13  
Roll Call Vote #:

2013 SENATE STANDING COMMITTEE  
ROLL CALL VOTES

BILL/RESOLUTION NO.

Senate Education Committee

Check here for Conference Committee

Legislative Council Amendment Number \_\_\_\_\_

Action Taken do pass

Motion Made By Schaible Seconded By Poolman

Senators	Yes	No	Senator	Yes	No
Chairman Tim Flakoll	✓		Senator Joan Heckaman	✓	
Vice Chairman Donald Schaible	✓		Senator Richard Marcellais	✓	
Senator Larry Luick	✓				
Senator Nicole Poolman	✓				

Total (Yes) 6 No 0

Absent 0

Floor Assignment Marcellais

If the vote is on an amendment, briefly indicate intent:

**REPORT OF STANDING COMMITTEE**

**SCR 4015: Education Committee (Sen. Flakoll, Chairman)** recommends **DO PASS**  
(6 YEAS, 0 NAYS, 0 ABSENT AND NOT VOTING). SCR 4015 was placed on the  
Eleventh order on the calendar.

**2013 HOUSE EDUCATION**

**SCR 4015**

# 2013 HOUSE STANDING COMMITTEE MINUTES

House Education Committee  
Pioneer Room, State Capitol

SCR 4015  
March 18, 2013  
Job #20020

Conference Committee

Committee Clerk Signature

*Mary Brucher*

## Minutes:

**Chairman Nathe:** Opened the hearing on SCR 4015.

**Senator Grindberg:** Sponsor, support. Explained the bill. Before you is a resolution that in essence endorses and further enhances STEM education in North Dakota and it provides direction and collaboration led by the Department of Career and Vocational Education. When we passed this out in the senate we put funding in three or four categories with STEM education. Representative Meier was the sponsor. One time funding to the group in Valley City to get a coordinating center up and running at \$400,000 and put that in the Career and Vocational Education budget. We funded two or three other STEM related activities; one being a partnership program with industry to match some dollars to further enhance STEM education. We felt when we were working on this budget that all the activity that has been Career and Vocational Education's experience in the past was support for teachers and we thought it would make sense to pick an entity to be the coordinator moving forward. That is the purpose of the resolution.

**Chairman Nathe:** Any questions for the senator? Thank you.

**Wayne Kutzer, Director of the Department of Career and Technical Education:** See attached testimony #1. Ended testimony at 5:35.

**Chairman Nathe:** Are there any questions?

**Representative Heller:** What did this resolution do for you that couldn't be done right now?

**Wayne Kutzer:** It provides a little bit of credence to what we do and focuses on whether other activities that go on in STEM we can help do that coordinating effort and provide some assistance from the statewide level. There are still going to be a lot of STEM activities; we're not going to control them but it is a matter for us to be named or provided the permission or leadership to be able to do it.

**Chairman Nathe:** Any further support to SCR 4015?

**Jon Godfread, Greater North Dakota Chamber:** We have taken a look at our workforce challenges across the state and we've been involved in the STEM program in our state.

We've noticed that we have some great workforce challenges and they are great problems to have but tomorrow's workforce is in the classroom today so we have to make sure our workforce is properly trained and ready to go. We believe that 4015 is a step in that direction. We offer our full support.

**Deana Wiese, Executive Director for the Information Technology Council of North Dakota:** See attached testimony #2. Ended testimony at 9:38.

**Chairman Nathe:** Any further support? Any opposition to 4015? Seeing none we will close the hearing on 4015.

**Representative Meier:** Made a motion for a Do Pass on SCR 4015.

**Representative Koppelman:** Seconded.

**ROLL CALL VOTE: 12 YES 0 NO 1 ABSENT**

**Representative Meier will carry this bill.**

Date: 3/18/13

Roll Call Vote #: 1

2013 HOUSE STANDING COMMITTEE  
ROLL CALL VOTES

BILL/RESOLUTION NO. 4015

House EDUCATION Committee

Check here for Conference Committee

Legislative Council Amendment Number \_\_\_\_\_

Action Taken:  Do Pass  Amended  Rerefer to Appropriations  
 Do Not Pass  Adopt Amendment

Motion Made By Rep. Meier Seconded By Rep. Koppelman

Representatives	Yes	No	Representatives	Yes	No
Chairman Mike Nathe	✓		Rep. Bob Hunskor	✓	
Rep. Mike Schatz	✓		Rep. Jerry Kelsh	✓	
Rep. Joe Heilman			Rep. Corey Mock	✓	
Rep. Brenda Heller	✓				
Rep. Dennis Johnson	✓				
Rep. Ben Koppelman	✓				
Rep. Lisa Meier	✓				
Rep. Karen Rohr	✓				
Rep. David Rust	✓				
Rep. John Wall	✓				

TOTAL (YES) 12 (NO) 0 (ABSENT) 1

FLOOR ASSIGNMENT Rep. Meier

If the vote is on an amendment, briefly indicate intent:

Consent Calendar

**REPORT OF STANDING COMMITTEE**

**SCR 4015: Education Committee (Rep. Nathe, Chairman)** recommends **DO PASS** and **BE PLACED ON THE CONSENT CALENDAR** (12 YEAS, 0 NAYS, 1 ABSENT AND NOT VOTING). SCR 4015 was placed on the Tenth order on the calendar.

**2013 TESTIMONY**

**SCR 4015**

#1

Senate Education Committee  
Testimony on SCR4015  
February 12, 2013

Mr. Chairman and members of the committee, my name is Wayne Kutzer, Director of the Department of Career and Technical Education. We are in support of SCR 4015. Understanding that this is a resolution, I believe that we can provide leadership and coordination as well as convene public and private groups to build recommendations for policies and approaches to use state resources wisely.

Senator Grindberg's concern, prior to filling this resolution, was the number of bills and funding requests for STEM activities in the state and there being no one place to try and coordinate the state's efforts or even identify opportunities that exist in our state or nationally that may be reproduced in our state.

The Department of CTE is in a unique position that can assist in facilitating the STEM discussion. At the 7-12 grade level, we establish, approve, provide technical assistance, and certify instructors for a number of STEM courses. We work closely with the state's ten two year campuses; we certify their CTE instructors and evaluate their CTE programs on a five year rotation basis. We hold quarterly CTE administrator meetings, which include the secondary CTE administrators and the academic vice presidents from the two-year campuses. We have a close working relationship with VCSU in the area of teacher training, where we have designed teacher training programs for a number of our teaching areas. We work with business and industry at both the state and local levels in a number of program advisory committees.

STEM is the integration of the Science, Technology, Engineering, & Math disciplines to provide students a greater understanding of the content and to inspire creativity. The concepts behind STEM are a basis for CTE programs, it is the cross disciplinary integration that happens in so many of our programs, such as:

Technology and Engineering Education - EbD (Engineering by Design)- looking at the design process and incorporating it into instruction – also includes PLTW (Project Lead the Way)a pre-engineering program.

Emerging Technology – Infusing high tech equipment modules into courses. Equipment rotates to schools on a four to six week rotation; instructors are trained in how to use and integrate the equipment

Innovation Grants – Focus on robotics, designing, building robots and competing in robotic competitions.

CTE has always been about integration of content into technical courses and its positive impact on student learning and engagement. It is supported by comparing how CTE concentrators did on the 11<sup>th</sup> grade state assessment for those that attained the proficient and advanced proficient levels. CTE concentrators outperformed all 11th grade students statewide in Reading 77.1% to 66.2%; in Math 63.7% to 57.3% and high school graduation rates 94.7% to 86.2%. Integration of academics works, cross disciplinary integration works, and student benefit ...that is a basis for STEM.

Mr. Chairman and members of the committee, I would ask that you give SCR 4015 a Do Pass recommendation. I would be glad to answer any questions.



INFORMATION TECHNOLOGY COUNCIL  
OF NORTH DAKOTA

#2

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**Testimony of Deana Wiese**

Executive Director  
Information Technology Council of North Dakota

**In Support of SCR 4015**

February 12, 2013

Chairman Flakoll and members of the Senate Education Committee:

My name is Deana Wiese, and I am the executive director of the Information Technology Council of North Dakota (ITCND). I am here today in support of SCR 4015.

ITCND was created in 2000 by North Dakota business, government and education leaders with the mission of actively encouraging the use, growth and development of information technology in North Dakota. Today, ITCND has nearly 100 member organizations, with representatives from both the public and private sector.

Addressing workforce needs is a top priority for ITCND as North Dakota's IT industry is expanding rapidly. Information technology is an integral component in all industries, including energy, agriculture and healthcare. Job Service North Dakota data shows that North Dakota has seen an increase of more than 50 percent in IT occupations over the past decade and is projecting a 20 percent increase for the next decade. Job growth in North Dakota's IT industry has more than doubled that of the nation. A shortage of skilled workforce is a limiting factor for technology-based industry growth. Therefore, the development of a high-quality STEM workforce is vital to the future growth of North Dakota's IT industry.

ITCND recognized its future workforce challenges several years ago and developed the IT Career Awareness Program. The purpose of the program is informing students, parents and educators of IT career opportunities in North Dakota and encouraging students to enroll in IT-related classes and degree programs at the secondary and post-secondary education levels. The North Dakota Department of Career and Technical Education has been a strong partner with industry in the development and implementation of the program. The program is now in its fourth year of implementation and it is working. In 2012, the enrollment in high school IT programs increased more than 50 percent over 2010 enrollment.

Fostering the development of a STEM workforce is essential to the future growth of North Dakota's IT industry. Therefore, we urge your support of SCR 4015.

House Education Committee  
Testimony on SCR4015  
March 18, 2013

Mr. Chairman and members of the committee, my name is Wayne Kutzer, Director of the Department of Career and Technical Education. We are in support of SCR 4015. Understanding that this is a resolution, I believe that we can provide leadership and coordination as well as convene public and private groups to build recommendations for policies and approaches to use state resources wisely.

This resolution came out of a concern of the number of bills and funding requests for STEM activities in the state and there being no one place to try and coordinate the state's efforts or even identify opportunities that exist in our state or nationally that may be reproduced in our state.

The Department of CTE is in a unique position that can assist in facilitating the STEM discussion. At the 7-12 grade level, we establish, approve, provide technical assistance, and certify instructors for a number of STEM courses. We work closely with the state's ten two year campuses; we certify their CTE instructors and evaluate their CTE programs on a five year rotation basis. We hold quarterly CTE administrator meetings, which include the secondary CTE administrators and the academic vice presidents from the two-year campuses. We have a close working relationship with VCSU in the area of teacher training, especially in the STEM area, where cooperatively we have designed teacher training programs for a number of our teaching areas.

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Mr. Chairman and members of the committee, I would ask that you give SCR 4015 a Do Pass recommendation. I would be glad to answer any questions.

**Performance of CTE Concentrators on ND Assessment  
Career and Technical Education**

	Reading Achievement Rates		Math Achievement Rates		High School Student Graduation Rates	
	CTE "Concentrators" met Proficient* level	All Students who met Proficient* level	CTE "Concentrators" met Proficient* level	All Students who met Proficient* level	CTE Graduates	All Student Graduates
Total Enrolled	77.1%	66.2%	63.7%	57.3%	94.7%	86.2%
Female	80.6%	70.8%	61.7%	55.5%	94.7%	87.8%
Male	74.5%	62.2%	65.0%	59.1%	94.6%	84.8%
American Indian or Alaska Native	57.8%	36.9%	48.3%	29.4%	85.2%	62.0%
Asian	56.3%	67.3%	50.0%	61.1%	80.0%	87.6%
Black or African American	54.3%	37.1%	33.3%	25.9%	82.9%	74.0%
Hispanic or Latino	57.8%	50.0%	45.0%	38.3%	79.2%	75.6%
White	79.2%	69.8%	65.3%	60.7%	95.9%	89.5%
Economically Disadvantaged/Low Income	68.2%	50.1%	54.6%	38.6%	89.8%	72.8%
Limited English Proficient	15.1%	15.0%	10.0%	13.1%	65.7%	62.1%
Single Parents	80.0%	N/A	20.0%	N/A	83.3%	N/A
Nontraditional Enrollees	74.9%	N/A	62.4%	N/A	94.9%	N/A
Individual with Disabilities	55.7%	34.7%	51.9%	27.5%	81.1%	66.7%
Migrant Students	50.0%	N/A	25.0%	N/A	100.0%	N/A

\* Combines students who achieved a proficient or advanced proficient on the assessment

N/A = Data could not be disclosed

"Concentrator" = A CTE concentrator is a student who has earned two or more credits in a single CTE program area recognized by the state

Source: 2012 CTE CAR report, DPI statewide AYP reports

C.P.  
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