

NCBW TIMELINE

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February 2010

BCC Informatics

Life Science skill standards approved by industry

At the IT Convergence Zone: A Rapid Development Model for Skill Standards and Curriculum published

Co-hosted 78 state high school and community college educators at Washington Community College Allied Health Center of Excellence Summit

Informatics Overview: A Program Building Resource for Community and Technical Colleges published

Microsoft designates BCC as its second IT Showcase School in the nation

Program featured in the industry's largest journal: BIO-IT World

Completion of Life Science Informatics Prior Learning Assessment Module applicable across all life science sectors and a first in the nation for community colleges

Originated committee, set mission, goals and agenda for first meeting of the Washington Life Science Industry Education Council.

College institutionalizes two positions: bioprocessing faculty position and a full-time instructional associate

MCC Bioprocessing

Biogen Idec, Genentech recognize MCC's dedicated, immersive environment for training and support new faculty and remodel of facility

International Society of Pharmaceutical Engineers supports design, construction of 3500-square foot facility - opens to classes in November 2005 with more than \$1 million in state-of-the-art equipment

Materials Resource Program established for biotech companies to donate unused equipment for use in high schools

Selected as national model for community college - industry partnerships in biotechnology by the US Dept of Education

Mike Fiño presents at Bio-Link National Fellows Conference in Berkeley

Mike Urbach conducts lab tours for high schools, prepares demonstrations for elementary and middle schools, promotes biotechnology at the MiraCosta Math and Science Fair

IHCC Biofuels, Agbio

Bioreactors purchased, through grant, begin to be used for training, pilot projects needed by industry

Bio-fuel laboratory techniques and fundamental scientific processes developed for teachers

Science Education Mobile Instruction Lab visits schools; more than 30 school districts experience the use of SEMI

Summer biotech teacher professional development

Video, multi-media online course delivery

Innovative 3-D virtual reality system for people to experience process of fermentation debates at Iowa State Fair

New Certificate programs developed

Development of the International Biofuel Training Iowa initiative

Pilot facility grows with donation of two new 80L fermenters from Cargill, can scale up from existing 13L

2004

2005

2006

2007

2008

2009

2010

NHCTC Biomanufacturing

Jan. 31, 2005 Northeast Biopharmaceutical Manufacturing Industry Skill Standards finalized in consensus with industry

Northeast Biomanufacturing Institute begins with short courses for incumbent workers

First in the nation Biomanufacturing Apprenticeship program begins

First BIOMAN 06 national conference organized by Dr. Sonia Wallman, at NHCTC July 24-28

Deb Audino and Bob O'Brien give Lonza trainees Aseptic Awareness course w/ behavioral videotaping

First Biomanufacturing Apprentices complete program, hired by biotechnology companies

Two students go to work with Tengion, finish in-house training program in three months instead of usual six

BIOMAN 2007 July 22-27

Core Production System text book published

New Recombinant DNA Technology course developed for R&D labs experimenting in nucleic acids, cloning, stem cell research

NHCTC Harmonized Biopharmaceutical Manufacturing Industry Skill Standard at working group meeting of industry and educators in

Forsyth Tech R&D

March, 2006 North Carolina Governor Michael Easley opens new technology building at Forsyth Tech including 17,000 square feet of new biotechnology lab space with state-of-the-art equipment

Lab animal handling course developed

Wake Forest Institute of Regenerative Medicine recruits three students for internships and "hands on experience"

An automated DNA Sequencer acquired to train techniques and skills on DNA/RNA sequencing, mapping and fingerprinting

Ten short courses developed - can be delivered on campus, in the classroom, or in a biotech company lab facility

June 2008 In house Pilot Research Internship Model

Strategic plan for the National Center created

Articulation Agreement with North Carolina Central University

NCBW

Web site created, www.biotechworkforce.org Tim Dubuque webmaster

June 28, 2004 President's High-Growth Job Training Initiative \$5 million grant for Forsyth Technical Community College in partnership with four other community colleges around the nation to develop the National Center for the Biotechnology Workforce (NCBW) across a three year period

January 2006 NCBW team meets at Salt Lake City Community College

February, 2006 NCBW team presents at symposium on Bio-processing & Bio-manufacturing Training in partnership with BioNetwork NC community college biotech training system. Focus for first Resource Line - Tracking Trends in Biotechnology Workforce.

March 2006 NCBW team presents at League for Innovations conference in Atlanta

April 9, 2006 Community College Program at BIO2006 in Chicago

May 1, 2006 NCBW presents to North Louisiana Partnership for Innovation at Shreveport

July 11-13, 2006 NCBW team presents at DOL Workforce Innovations Conference, Anaheim. Honorable Mention award to NCBW.

October 2006 Five profiles published by consultant John Grady, one on each Center of Expertise; capture and document best biotech training practices, serve as replicable models and resources for community colleges nationwide.

January 10, 2007 Biotech Resource Line on Best Practices produced from a seminar with five college partners and Tengion.

Feb 2007 Profile on National Center Office published.

March 1, 2007 Piedmont Triad BioNight recognizes NCBW and Russ Read for excellence in community service.

May 6-9, 2007 NCBW presents "Faces of Success" at Community College Program at BIO 07 Boston; subject for Biotech Resource Line.

July 2007 Profile on consortium of eight community colleges with Forsyth Tech published.

October 17-19, 2007 Piedmont Triad Fly-In hosts 24 high school biotech teachers from around the country, tours of Biogen Idec, Targacept, Tengion, Wake Forest Institute in partnership with Alamance Community College and Bio-Link.

February 5-6, 2008 NCBW hosts nationwide DOL bioscience WIRED - Workforce Innovation in Regional Economic Development - conference in Winston Salem.

May 19-20, 2008 NCBW lead sponsor, exhibits at Council for Entrepreneurial Development conference in Winston-Salem.

June 16, 2008 Community College Program at BIO 08 convention in San Diego

June 17, 2008 "Hire Right and Churn Less" workforce panel at BIO 08 San Diego

March 2009 report on meeting to determine Biotech Student Tracking program findings and best practices.

June 2009 Final report on Student Tracking Program including all phases, results and Pilot Model for tracking and alumni database management.

NCBW Collaborations

May 2009 Community College Program at BIO2009 in Atlanta on future biotech economy, immersive and e-learning (click for powerpoint presentation)

January 2010 Biotech Workforce report on Piedmont Triad BioNight highlights results, challenges ahead; pdf includes quotes from participants, awards, and photos.

BioNetwork supports the mission of the North Carolina Community College System aligning world class workforce training and education to biotechnology, pharmaceutical and life science industries.

October 2008 Agreement with the North Carolina Community College System establishes NCBW as one of seven BioNetwork centers.

October 2008 Biotech Student Tracking program begins across series of phases to locate, track and keep graduates connected.

November 2008 report on biotechnology Student Tracking program meeting

June 2009 Presentation to the Bio-Link Summer Fellows Program and US DOL Wired Bioscience Group

www.biotechworkforce.org

www.workforce3one.org