

The Open Textbook Collaborative Statewide Project: Progress and Possibilities

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Education FIPSE Program

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Rob Hilliker, OTC Project Team**]

[**2022 NJ Academic Libraries Conference**]



by Marilyn N. Ochoa

Agenda



Project Overview & Goals



Opportunities for Participation



Workflow



Currently Funded Proposals



Q&A

Open Textbook Collaborative Goals

1

Create communities of practice in four Career and Technical Education (CTE) industry sectors

2

Create high quality OER course textbooks for highly enrolled STEM/Perkins CTE gateway (introductory) courses

3

Establish an open-source OpenPublishing platform with peer review and versioning functionality in OpenNJ repository

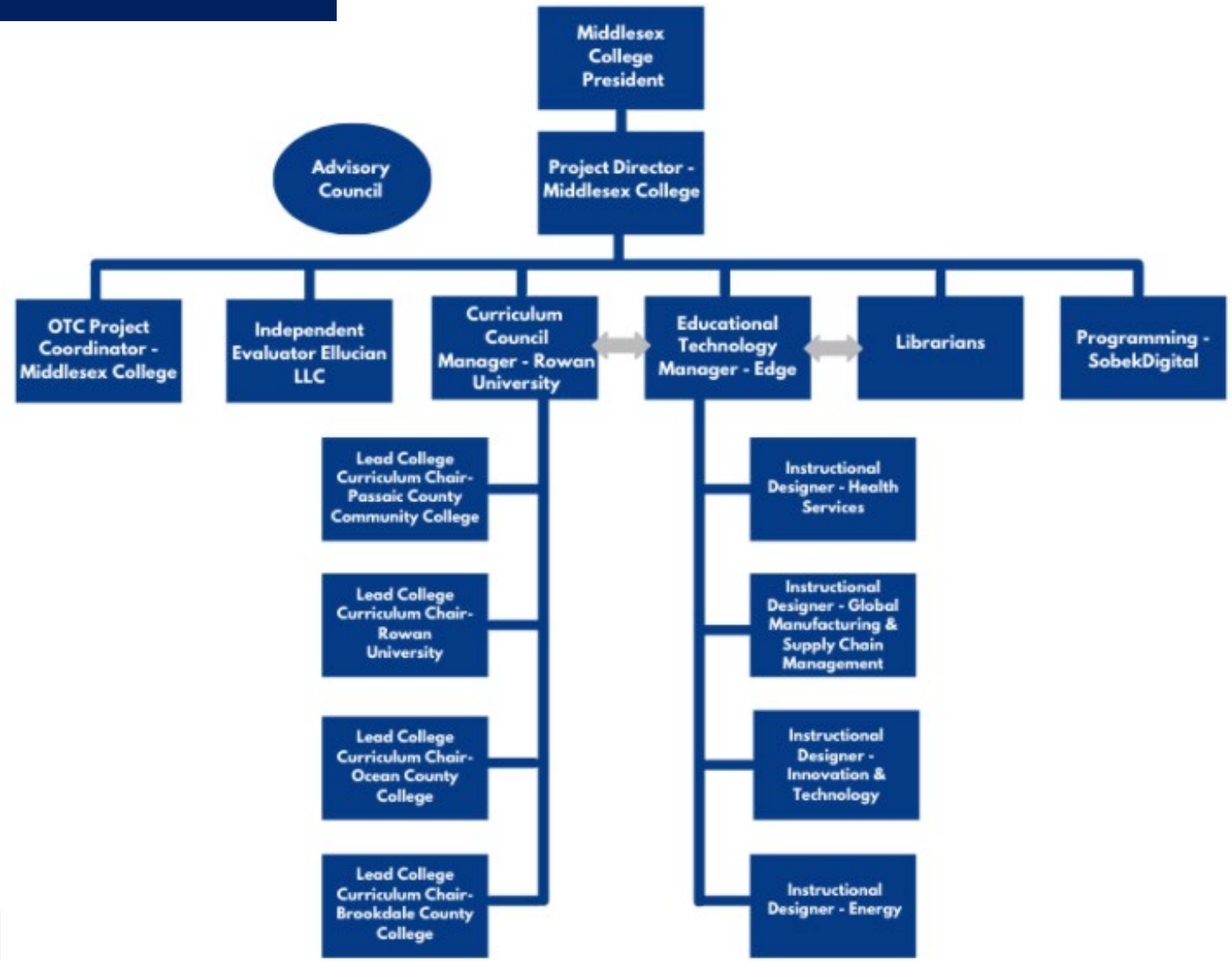
4

Create a national CTE Course OER Collection to share OER materials

5

Expand project outcomes through professional development and expansion of open textbooks at 17 New Jersey community colleges and beyond

Project Overview



Growth Industries and College Leads

Growth Industry	Lead College
Global Manufacturing & Supply Chain Management	Passaic County Community College
Innovation & Technology	Ocean County College
Health Services	Brookdale Community College
Energy & Infrastructure	Rowan University

Opportunities for Participation



Participate in Curriculum Committee (industry-focused)



Participate in Advisory Committee (strategic)



Recommend potential subject specialists in industry areas



Apply to write OER textbook or ancillaries in specific industries



Include already existing OER in OpenNJ statewide repository



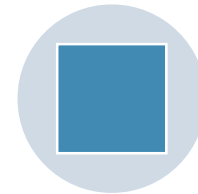
Participate in project evaluation and usability testing of OpenPublishing tools



Attend OER workshops and other professional development opportunities



Disseminate information about OTC project opportunities



Adopt or adapt OER

Industry Areas and Initial Courses

Growth Industry	Proposed Courses
Global Manufacturing & Supply Chain Management	Principles of Economics I Analytic Geometry and Calculus I Business Law I NEW: Introduction to Supply Chain Management
Innovation & Technology	Data Structures and Analysis Introduction to Computers and Computer Applications Introduction to Computer Programming: Java Introduction to Computer Programming: Python
Health Services	Human Anatomy and Physiology I Introduction to Organic and Inorganic Chemistry. Principles of Microbiology
Energy & Infrastructure	Technical Graphics/CAD I General Physics I Construction Surveying I Introduction to GIS

Funding for OER Materials

Type of OER Material	Stipend Amount
Original, High Quality, Multi-Chapter Textbooks	\$3,000 - \$6,000
Original, High Quality, OER Materials	\$1,000 - \$3,000
Complete Digital Toolkits: Must include Faculty resources such as detailed course outlines, interactive activities, and learning management system-based support materials	\$3,000 - \$6,000
Original Ancillaries	\$500 - \$2,000

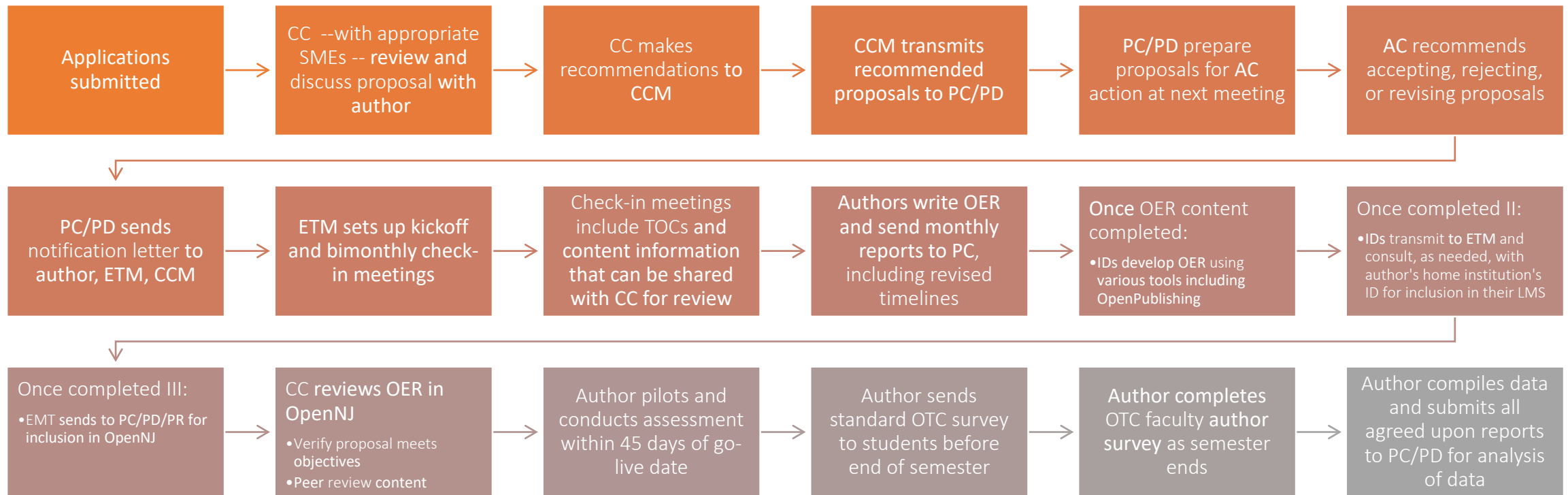
Important Dates: Rounds 5 through 8:

• 2022

- **Round 5 closes February 11 (with Advisory Council evaluation meeting week of February 28)**
- **Round 6 closes May 27 (with Advisory Council evaluation meeting week of June 13)**
- **Round 7 closes July 1 (with Advisory Council meeting week of July 18)**
- **Round 8 closes October 28 (with Advisory Council meeting week of November 14)**

<http://bit.ly/OpenTextCollabNJ>

Workflow for OTC Projects



Abbreviations Used Throughout the Workflow Slide

(Because we know what we're talking about with our Acronyms but don't expect you to!)

OTC = Open
Textbook
Collaborative

PD = Project
Director
• Marilyn N. Ochoa

PC = Project
Coordinator
• Steve Chudnick

CCM= Curriculum
Committee
Manager
• Rob Hilliker

ETM= Education
Technology
Manager
• Josh Gaul

PR = Programmer
• Mark Sullivan

AC =
Advisory Council

CC = Curriculum
Committee

ID = Instructional
Designer

LB = Librarian

LMS = Learning
Management
System

SME = Subject
Matter Expert(ise)

TOC = Table of
Contents

Round 5 Dates: A Workflow Example

- ♦ **January 1- February 11 Call for Proposals Open**
- ♦ **February 11 Proposals Due**
- ♦ **Week of February 18 Curriculum Committee (CC) review meetings to select proposals to move forward**
- ♦ **Week of February 28 Advisory Committee (AC) approval meetings**
- ♦ **Week of March 5 Notifications to awardees**
- ♦ **March 15 – July 1 Course creation (monthly check-in reports to CC)**
- ♦ **July 1-15 Peer review complete by CC**
- ♦ **Fall author pilot**

Course Name/ Proposal Round	Instructors/Institutions/ Contact Info	Description
Analytic Geometry and Calculus I Round 2	<u>Keith Bosler</u> , <u>Daniel Colaneri</u> , <u>Iryna Pavlyuk</u> , Middlesex College; <u>David Burger</u> , <u>Andrea Gloetzer</u> , Passaic County Community College; <u>Jose Orozco Rodriguez</u> , Bergen Community College	This project will develop a pdf workbook for Calculus I that will include guided examples and problem sets to assist students with their studying.
Chemistry I and II Round 4	<u>James P. Grinias</u> , <u>Allison Kelly</u> , <u>Neil T. Mucha</u> , <u>Matthew Pilarz</u> , <u>Kandalam V. Ramanujachary</u> , <u>Siobhan Toal</u> , Rowan University	This project will develop two courses based upon an OpenStax Chemistry book. It will include lecture materials, videos for problem solving, and homework exercises.
General Physics I Round 2	<u>Steve Kotowich</u> , Rowan College at Burlington County	This project will supplement a current OpenStax Textbook by presenting the materials in written lectures and sets of diagrams showing a more step by step approach.
General Physics I Round 2	<u>Moe Tabanli</u> , Middlesex College	This project will supplement other OER material to create a fully open General Physics I course.

Course Name/ Proposal Round	Instructors/Institutions/ Contact Info	Description
Human Anatomy and Physiology I Round 2	<u>Caitlin Burns</u> , <u>Eric Guadara</u> , <u>Dorothy Salinas</u> , County College of Morris	This project will provide students with a virtual microscope that will allow them to view specimens relevant to A&P course content and enable them to practice practical laboratory skills such as focusing slides, viewing under different magnifications and altering available light.
Introduction to Computer Programming with Python Round 1	<u>Chris Simber</u> , Rowan College at Burlington County	This project will create an Open Textbook with accompanying ancillary materials such as lecture slides, assignments, and answer keys.
Organic Chemistry I Round 4	<u>Eugene de Silva</u> , Ocean County College	This project will create a 14-chapter Organic Chemistry I textbook with laboratory exercises.
Organic Chemistry II Round 4	<u>Eugene de Silva</u> , Ocean County College	This project will create a 14-chapter Organic Chemistry II textbook with laboratory exercises.

Course Name/ Proposal Round	Instructors/Institutions/ Contact Info	Description
Principles of Economics I Round 2	<u>Michael C. Walker</u> , Passaic County Community College	This project will supplement an available <u>OpenStax Principles of Economics OER textbook</u> with additional content on the subjects of Household Spending and the Economic Effects of the COVID Pandemic.
The Virtual Microscope Project Round 4	<u>Caitlin Burns</u> , <u>Eric Guadara</u> , <u>Dorothy Salinas</u> , County College of Morris	This project will build upon the Human Anatomy and Physiology Project previously funded in Round 2. Phase two will offer a Virtual Microscope with an extended slide box that will include images utilized in additional courses. It will also users to customize their own "slide box" to meet their learning objectives.

Project Team

Person/Email	Project Role	Institution/Organization
<u>Marilyn N. Ochoa</u>	Project Director, Principal Investigator	Middlesex College
<u>Steve Chudnick</u>	Project Coordinator	Middlesex College
<u>Rob Hilliker</u>	Curriculum Council Manager	Rowan University
<u>Susan Scarangella</u>	Lead College Curriculum Chair: Health Services	Brookdale Community College
<u>Greg Fallon & Toni Taylor</u>	Lead College Curriculum Chair: Global Manufacturing and Supply Chain Management	Passaic County Community College
<u>Donna Rosinski-Kauz</u>	Lead College Curriculum Chair: Innovation and Technology	Ocean County College
<u>Debbie Gaspar</u>	Lead College Curriculum Chair: Energy and Infrastructure	Rowan University
<u>Joshua Gaul</u>	Educational Technology Manager	Edge, Inc.
<u>Mark V. Sullivan</u>	Open Publishing/Open NJ Programmer	Sobek Digital
<u>Deb Porter</u>	External Evaluator	Ellucian, Inc.
<u>Jake Farbman</u>	Liaison to Workforce and Industry Partners	New Jersey Center for Student Success/ New Jersey Council of County Colleges

Get Involved

Join

Join a Curriculum Committee

Submit

Submit an Open Textbook proposal

Chat

Join our open office hours, Noon every Thursday at <http://bit.ly/discussOTCNJ>

Visit

Visit our Website for Professional Development Resources