

EnFUSE Poster Session Assignments

Poster Sessions Times:
 Wed - 4/27 @ 7:15 PM to 9:15 PM
 Thu - 4/28 @ 5:15 PM to 6:45 PM

Poster Locations:
 Regency and Columbia Foyers
 Columbia A,B, and C Rooms
 Concord, Lexington, and Bunker Hill Rooms

Poster session schedules are alphabetized by the presenter's last name.

Session	Poster	Track	ID #	Institution	PI First Name	PI Last Name	Discipline	Abstract Title
1	262	LT&C	O109	Purdue University	Nicoletta	Adamo-Villani	Computer Science	A Serious Game for Undergraduate CS Education: Development and Findings
2	263	LT&C	O110	Calvin College	Joel	Adams	Computer Science	Helping Students See and Understand Parallel Computing Concepts
1	336	BP	O267	Oregon State University	Kevin	Ahern	Interdisciplinary	Social Capital and Its Relationship to Success of OSU STEM Leaders Program Students
2	70	SL	O226	Concord University	Joseph	Allen	Geosciences	Longer Engagement in Undergraduate Research Leads to a More Sophisticated Understanding of the Nature of Science?
1	71	SL	O227	Arizona State University	Ariel	Anbar	Geosciences	Making Students and Teachers Smarter
2	72	SL	O1	Swarthmore College	Laurie	Anderson	Biological Sciences	The Ecological Research As Education Network (EREN)
1	73	SL	O2	University of Georgia	Tessa	Andrews	Biological Sciences	Promoting Active Learning in Large Undergraduate Stem Courses
2	74	SL	O133	University of Washington	Cynthia	Atman	Engineering	Early-career Professionals on Engineering Skills, Knowledge, and Context
1	264	LT&C	O268	Northern Illinois University	Abul	Azad	Interdisciplinary	Potential Technologies for Remote Laboratory Developments
2	75	SL	O228	Highline College	Eric	Baer	Geosciences	Supporting and Advancing Geoscience Education in Two-year Colleges (SAGE 2YC)
1	1	IT	O134	Purdue University	Anil	Bajaj	Engineering	Exploring Pedagogical Borderlands
2	265	LT&C	O135	Clarkson University	Mahesh	Banavar	Engineering	Integrated Development of Scalable Mobile Multidisciplinary Modules (SM3) for STEM Education
1	76	SL	O269	Boston College	Milke	Barnett	Interdisciplinary	Public Connections Through Social Justice Driven Scientific Investigations
2	77	SL	O3	Yale University	Carol	Bascom-Slack	Biological Sciences	Creating College-High School Partnerships to Assess the Prevalence of Antibiotic-Resistant Microbes in the Environment
1	266	LT&C	O270	University of New Hampshire	Christopher	Bauer	Interdisciplinary	Windows on the Inquiry-classroom: Reality Video for Professional Development
2	78	SL	O229	Valencia College	Mary	Beck	Geosciences	Inquiry-based Learning Strategies and Student Interest
1	267	LT&C	O136	Montana State University	James	Becker	Engineering	Towards the Development of a Web-based Platform to Enhance Student Success in a Gateway Course in Electric Circuit Analysis
2	268	LT&C	O76	University of Arkansas at Little Rock	Robert	Belford	Chemistry	Cheminformatics OLCC: Intercollegiate curriculum development and delivery
1	79	SL	O137	University of South Carolina	Nicole	Berge	Engineering	Sequencing of In-Class and Out-of-Class Learning for Undergraduate Students
2	269	LT&C	O138	Temple University	Saroj	Biswas	Engineering	VPL: An Intelligent Multimedia Virtual Power Laboratory

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1	80	SL	O230	New York City College of Technology, CUNY	Reginald	Blake	Geosciences	GP-EXTRA: Recruiting and Retaining Non-geoscience Minority STEM Majors for the Geoscience Workforce
2	81	SL	O231	National Council for Science and the Environment	David	Blockstein	Geosciences	Read for the Earth: Connecting Formal and Informal Climate Change Education for Undergraduates
1	82	SL	O139	University of Louisville	Matt	Bohm	Engineering	Determining the Impact of Teaching Function on Engineering Students' Design Synthesis Abilities
2	2	IT	O321	Duke University	Jack	Bookman	Mathematics	Improving the Preparation of Graduate Students to Teach Undergraduate Mathematics
1	270	LT&C	O271	Oregon State University	Jana	Bouwma-Gearhart	Interdisciplinary	Data Driven Decision-making in STEM Departments: A Field Study of Faculty Engagement in Continuous Improvement Systems for Teaching
2	337	BP	O272	Northern Kentucky University	Bethany	Bowling	Interdisciplinary	Project FORCE: Improving Recruitment and Retention through STEM-Wide Efforts
1	83	SL	O4	Kingsborough Community College	Loretta	Brancaccio-Taras	Biological Sciences	Crossroads Project - Intersecting Workshops, Learning Communities and Research in Biology to Promote Student Success in STEM
2	84	SL	O5	Saint Louis University	Elena	Bray Speth	Biological Sciences	Distributing the Load: Designing instruction that engages learners in and out of the classroom.
1	271	LT&C	O77	Rutgers University	John	Brennan	Chemistry	Creation of Academic Social Networks for Effective Online eLearning in General Chemistry
2	85	SL	O78	Miami University	Stacey Lowery	Bretz	Chemistry	Measuring Chemistry Students' Understandings of Multiple External Representations through Cluster Analysis
1	86	SL	O6	University of La Verne	Christine	Broussard	Biological Sciences	Scientific Inquiry and Process: A Design for the Times
2	87	SL	O322	Carnegie Foundation for the Advancement of Teaching	Anthony	Bryk	Mathematics	Transforming Students' Mathematical Experiences
1	3	IT	O140	Massachusetts Institute of Technology	Louis	Bucciarelli	Engineering	Liberal Studies in Engineering - A Smoother Pathway into the Profession
2	4	IT	O7	Juniata College	Vincent	Buonaccorsi	Biological Sciences	The Genome Consortium for Active Undergraduate Research and Teaching Using Next-Generation Sequencing
1	88	SL	O323	Stony Brook University	Wm. David	Burns	Mathematics	Making Mathematics Real
2	89	SL	O111	Rochester Institute of Technology	Zack	Butler	Computer Science	Pencil Puzzles as a Domain for Assignments in Introductory CS Courses
1	5	IT	O348	Michigan State University	Marcos	Caballero	Physics	Surveying the State of Computational Physics in Courses for Physics Majors
2	90	SL	O232	University of Rhode Island	Dawn	Cardace	Geosciences	Improving Geoscience Education Pathways Through Engaging Scientific and Career Experiences
1	272	LT&C	O8	Alfred University	Jean	Cardinale	Biological Sciences	The Effectiveness of Interactive Video Vignettes
2	91	SL	O141	Lawrence Technological University	Donald	Carpenter	Engineering	SEED-PA: A Practical Tool for Assessment Ethical Initiatives
1	92	SL	O9	Iowa State University	Shana	Carpenter	Biological Sciences	Using Retrieval Practice to Enhance Achievement in STEM Courses
2	6	IT	O233	Marshall University	Tina	Cartwright	Geosciences	Geo-Needs: Ideal Models for BP in the Geosciences at Two-

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								Year and Minority-Serving Colleges
1	93	SL	O10	American Society for Microbiology	Amy	Chang	Biological Sciences	Hybrid Training Courses Effectively Develops Science Educators
2	94	SL	O324	Boston University	Suzanne	Chapin	Mathematics	Curriculum for Elementary Mathematics Content Courses: Developing Faculty Expertise
1	95	SL	O234	UNAVCO	Donna	Charlevoix	Geosciences	The Geo-Launchpad program: A pre-REU internship for community college students
2	96	SL	O11	Middle Tennessee State University	Tom	Cheatham	Biological Sciences	Mathematics as a FirstSTEP to Success in STEM
1	97	SL	O142	California Polytechnic State University	John	Chen	Engineering	Grit and Its Role in Achievement among Engineering Students
2	98	SL	O12	Arizona State University	Michelene	Chi	Biological Sciences	Learning from Dialog Versus Monolog Videos
1	273	LT&C	O112	North Carolina State University	Min	Chi	Computer Science	The Impact of Granularity on Worked Examples and Problem Solving.
2	7	IT	O349	Yale University	Norman	Chonacky	Physics	A Movement to Integrate Computation into Undergraduate Physics Courses: How it might help you reform your courses in any discipline.
1	274	LT&C	O113	Florida International University	Peter	Clarke	Computer Science	Integrating Testing into CS/IT Courses Supported by a Cyberlearning Environment
2	8	IT	O273	University of Iowa	Renee	Cole	Interdisciplinary	TILE: Transform, Interact, Learn, and Engage for success in STEM education
1	275	LT&C	O79	Georgia Institute of Technology	David	Collard	Chemistry	Chemistry Coalitions, Workshops and Community Scholars (cCWCS): www.ccwcs.org
2	9	IT	O275	University of Wisconsin-Madison	Mark	Connolly	Interdisciplinary	The Longitudinal Study of Future STEM Scholars: Major Findings from a Seven-Year Project
1	99	SL	O274	University of Wisconsin-Madison	Mark	Connolly	Interdisciplinary	Talking About Leaving Revisited: Exploring the Contribution of Teaching in Undergraduate Persistence in the Sciences
2	100	SL	O143	Portland State University	Susan	Conrad	Engineering	Integrating Writing Skill Development into STEM Education: A Model from Civil Engineering
1	338	BP	O276	University of Minnesota, Morris	James	Cotter	Interdisciplinary	Initiatives to Advance the Participation of Native Americans in the Interdisciplinary Environmental Sciences
2	101	SL	O144	Purdue University	Monica	Cox	Engineering	From Data Collection to Commercialization: The Evolution of an On-line Tool to Assess Pedagogical Practices in STEM Classrooms
1	102	SL	O13	Rochester Institute of Technology	Paul	Craig	Biological Sciences	Using Protein Function Prediction to Promote Hypothesis-driven Thinking in Undergraduate Biochemistry Education
2	339	BP	O14	Knox College	Mary	Crawford	Chemistry	Creating Opportunities and Access in Science and Technology: An S-STEM program at Knox College
1	276	LT&C	O80	University of Florida	Kent	Crippen	Chemistry	ChANGe Chem: Reforming General Chemistry with the Context of Everyday Engineering
1	103	SL	O277	Clarkson University	James	Crowley	Interdisciplinary	Modeling across the Curriculum
2	10	IT	O82	University of Wisconsin-Platteville	Christina	Curras	Chemistry	Implementation of an Engineering-Based Retention Center and its Impact on Student Success

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1	104	SL	O145	University of Michigan	Shanna	Daly	Engineering	Disseminating the Design Heuristics Evidence-based Ideation Pedagogy in Engineering Education
2	105	SL	O235	William Paterson University	Nicole	Davi	Geosciences	Using Tree-Ring data to Develop Critical Scientific and Mathematical Thinking Skills in Undergraduate Students
1	277	LT&C	O278	Alma College	John	Davis	Interdisciplinary	Why Wait? Using Early Undergraduate Research to Improve the STEM Educational Experience and Retain Talented Students
2	106	SL	O15	Pepperdine University	Stephen	Davis	Biological Sciences	First-year Students as Scholars Program
1	107	SL	O16	University of Mississippi	Lainy	Day	Biological Sciences	Evolution in Education: A Top-Down Approach to Fundamentally Improving Science Education
2	108	SL	O236	Old Dominion University	Declan	De Paor	Geosciences	Envisioning a Future Where TAs are Trained to Teach!
1	109	SL	O146	Purdue University	Jennifer	DeBoer	Engineering	Rigorously Assessing the Anecdotal Evidence of Increased Student Persistence
2	278	LT&C	O147	Purdue University	Hazar	Dib	Engineering	Using a Virtual Sculpture to Teach Steel Connection Design
1	110	SL	O237	University of Michigan	Gregory	Dick	Geosciences	Broadening Pathways to Geosciences with an Integrated Program at the University of Michigan
2	111	SL	O148	Virginia Tech	Carl	Dietrich	Engineering	Initial Development of Wireless Communication Testbed Based Tutorials
1	279	LT&C	O279	Arizona State University	Suzanne	Dietrich	Interdisciplinary	Checkpoints: Formative Self-Assessment for Customizable Database Visualizations
2	112	SL	O17	San Diego State University	Elizabeth	Dinsdale	Biological Sciences	STEMM: Sequencing Training Education using Microbial Metagenomics
1	11	IT	O280	Georgia State University	Dabney	Dixon	Interdisciplinary	Tapping the Resources of Lecturers in STEM Education
2	12	IT	O19	University of North Carolina, Chapel Hill	Erin	Dolan	Biological Sciences	Building Capacity for Community College Biology Education Research: First Steps
1	113	SL	O18	University of Texas at Austin	Erin	Dolan	Biological Sciences	Examining Undergraduate Attitudes Towards the Use of Math in Biology
2	13	IT	O83	California State Polytechnic University, Pomona	Winnie	Dong	Chemistry	Bronco Scholar: An Online Hub for STEM Student Research
1	14	IT	O20	BioQUEST	Samuel	Donovan	Biological Sciences	QUBES: Quantitative Undergraduate Biology Education Synthesis
2	340	BP	O149	Claremont Graduate University	David	Drew	Engineering	Liberal Studies in Engineering: A Smoother Pathway into the Profession
1	15	IT	O281	Northampton Community College	Dennis	Ebersole	Interdisciplinary	Using Faculty Learning Communities to Increase the Use of Evidence-based Practices
2	16	IT	O238	Central Washington University	Anne	Egger	Geosciences	InTeGrate: Interdisciplinary Teaching about Earth for a Sustainable Future
1	280	LT&C	O84	University of California, Riverside	Jack	Eichler	Chemistry	Flipped Classroom Modules for Large Enrollment Introductory Chemistry Courses
2	114	SL	O21	Washington University in St Louis	Sarah	Elgin	Biological Sciences	Effective Implementation of a Classroom Undergraduate Research Experience (CURE)
1	17	IT	O114	Western New England University	Heidi	Ellis	Computer Science	Learning via Student Participation in Humanitarian Free and Open Source Software Projects

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2	18	IT	O350	Francis Marion University	Larry	Engelhardt	Physics	Innovating an Old Curriculum: Integrating Computation into Undergraduate Physics
1	115	SL	O325	University of Texas at Arlington	James	Epperson	Mathematics	Developing Likert Items to Capture Mathematical Problem Solving
2	116	SL	O363	Northeastern Illinois University	Maureen	Erber	Social/Behavioral Sciences	Peer-Led Team Learning in Psychology
1	281	LT&C	O150	Louisiana Tech University	Katie	Evans	Engineering	A Summary of Studies Assessing the Effects of Online Homework on Student Learning
2	117	SL	O151	Utah State University	Ning	Fang	Engineering	Undergraduate Research on Self-regulated Learning in Engineering Education
1	19	IT	O239	Colorado State University	Emily	Fischer	Geosciences	Improving the Recruitment and Persistence of Undergraduate Women in the Geosciences
2	20	IT	O22	California State University, San Bernardino	Kirsten	Fleming	Biological Sciences	Investigating Student Success Using Evidence-based Strategies
1	118	SL	O282	Bennington College	Janet	Foley	Interdisciplinary	The Future of a New England Mill Town
2	119	SL	O283	Seton Hill University	Jamie	Fornsaglio	Interdisciplinary	Implementing Design-based and Interdisciplinary Approaches for Learning Laboratory Science
1	120	SL	O23	Rochester Institute of Technology	Scott	Franklin	Interdisciplinary	Impress: A Metacognitive Approach to Improving Student Performance
2	341	BP	O152	Pennsylvania State University	Amy	Freeman	Engineering	Overview of the Sustainable Bridges from Campus to Campus Project
1	21	IT	O284	Florida Gulf Coast University	Laura	Frost	Interdisciplinary	SPARCT: A STEM Professional Academy that Reinvigorates the Culture of Teaching
2	22	IT	O285	Texas A&M University	Jeffrey	Froyd	Interdisciplinary	Helping Principal Investigators of Educational Innovation and Development Projects Develop and Improve a Propagation Plan
1	121	SL	O326	West Virginia University	Edgar	Fuller	Mathematics	Measuring the Impact of Anxiety and Personality on Engagement in Developmental Mathematics Coursework
2	342	BP	O327	California State University, Fullerton	Charles	Funkhouser	Mathematics	Native American-based Mathematics Materials for Integration Into Undergraduate Courses
1	282	LT&C	O286	University of Utah	Cynthia	Furse	Interdisciplinary	Teaching Teachers to Flip Their Classes
2	122	SL	O328	Shippensburg University	Benjamin	Galluzzo	Mathematics	USE Math: Undergraduate Sustainability Experiences in Mathematics
1	23	IT	O287	Western Washington University	Edward	Geary	Interdisciplinary	A Collaborative Model for Transforming Undergraduate STEM Education at Interlinked 2- and 4-year Institutions
2	123	SL	O24	Montclair State University	Nina	Goodey	Biological Sciences	Participation of a Professional Advisory Panel in a Biochemistry Laboratory Course
1	124	SL	O25	University of Mississippi	Tamar	Goulet	Biological Sciences	Scot Scantrons®, clickers are coming
2	125	SL	O26	Spelman College	Rosalind	Gregory-Bass	Biological Sciences	Long Term Trans-disciplinary Project-Based Instruction in Biology and Physics
1	24	IT	O27	University of California, Los Angeles	William	Grisham	Biological Sciences	iNeuro: Response to an Identified Need for a Workforce Trained to Curate and Manage Large Scale Data and Databases
2	126	SL	O85	Wake Forest University	Michael	Gross	Chemistry	Situational Student Motivations in Introductory Chemistry Courses

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1	127	SL	O153	Oregon State University	Karl	Haapala	Engineering	A Constructionist Learning Approach
2	283	LT&C	O154	University of Louisiana at Lafayette	Emad	Habib	Engineering	Development of Student-Centered Web-Based Data and Modeling-Driven Modules
1	128	SL	O288	South Dakota School of Mines and Technology	Kevin	Hadley	Interdisciplinary	General Adoptability of Self-contained Simulated Teamwork Activity
2	129	SL	O289	Brooklyn College - CUNY	Louise	Hainline	Interdisciplinary	Peer-Assisted Team Research (PATR): A Method for Early Undergraduate Research
1	284	LT&C	O86	Central Michigan University	Janice	Hall Tomasik	Chemistry	Enhancing STEM Education with Research-Based Environmental Experiments
2	285	LT&C	O87	Howard University	Joshua	Halpern	Chemistry	Collaborative Research: Developing and Assessing Effective Cyberlearning within the STEMWiki Hyperlibrary
1	25	IT	O290	University of California, Berkeley	Catherine	Halversen	Interdisciplinary	Faculty Learning Program: A Professional Learning Program to Redefine the College Lecture
2	286	LT&C	O291	Fort Lewis College	Kimberly	Hannula	Interdisciplinary	Improving Retention of STEM Majors By Embedding Peer Tutor/Mentors as Lab Assistants
1	287	LT&C	O88	Columbia University	Sarah	Hansen	Chemistry	Does Explicit Training for Metavizualization Skills Improve Student Learning?
2	130	SL	O329	WestEd	Shandy	Hauk	Mathematics	Math Capstone Course Module Development
1	131	SL	O28	University of Nebraska-Lincoln	Tomas	Helikar	Biological Sciences	Research-driven Facilitation of Systems Thinking with Computational Models in Life Sciences Education
2	132	SL	O155	University of Illinois at Urbana/Champaign	Geoffrey	Herman	Engineering	Juxtaposing Faculty's Espoused and Practiced Epistemologies about Mathematics and Engineering to Catalyze Curriculum Reform
1	133	SL	O240	Florida International University	Rosemary	Hickey-Vargas	Geosciences	Instrument-driven and Research based Teaching Strategies
2	26	IT	O29	Bowdoin College	Robert	Hilborn	Biological Sciences	Crafting a Revolution in Physics Education: Conference on Introductory Physics for the Life Sciences
1	134	SL	O292	Mississippi State University	Priscilla	Hill	Interdisciplinary	NUE: Multifunctional Nanostructures for Integrated Electrical, Chemical, Mechanical and Geological Applications: A Multidisciplinary Laboratory Education Program
2	288	LT&C	O115	Drexel University	Gregory	Hislop	Computer Science	OpenPath – Improving Student Pathways to Computing Professions via Humanitarian Free and Open Source Software
1	27	IT	O241	University of Oregon	Jan	Hodder	Geosciences	Faculty as Change Agents: Transforming Geoscience Education in Two-year Colleges
2	28	IT	O293	Berea College	Tracy	Hodge	Interdisciplinary	Transforming the Introductory STEM Courses at Berea College
2	135	SL	O294	Morgan State University	Christine	Hohmann	Interdisciplinary	Improving Science and Writing Efficacy in an Interdisciplinary Series of Courses
1	289	LT&C	O330	University of Virginia	Jeff	Holt	Mathematics	Updating the WeBWork Open Problem Library
2	136	SL	O156	Arizona State University	Christiana	Honsberg	Engineering	Common Purpose, Shared Goals, and Community
1	137	SL	O30	Rowan University	Sally	Hoskins	Biological Sciences	Short-term Intervention with Create Influences Aspects of Students' Self-rated Abilities and Beliefs
2	343	BP	O31	Lewis University	Cynthia	Howard	Biological Sciences	Mathematical Modeling as a Means to Demonstrate the Interdisciplinary Nature of Science

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1	138	SL	O157	University of Michigan	Aileen	Huang-Saad	Engineering	Entrepreneurship Education for Professional Formation
2	139	SL	O158	Duke University	Lisa	Huettel	Engineering	A Grand Challenge-based Framework for Contextual Learning in Engineering
1	140	SL	O331	University of Virginia	Chris	Hulleman	Mathematics	Removing Barriers to Success: An Integrative Expectancy-Value Intervention
2	141	SL	O357	University of Colorado, Boulder	Anne-Barrie	Hunter	Research or Assessment	Talking about Leaving Revisited: A Multi-component Research Study
1	142	SL	O159	Pennsylvania State University	Kathy	Jackson	Engineering	Supporting Self-directed Learning in Cyberlearning
2	143	SL	O295	California State University, Fullerton	Philip	Janowicz	Interdisciplinary	Interdisciplinary Assessment of Supplemental Instruction and Attitudes in STEM: Year One
1	29	IT	O296	Boston University	Manher	Jariwala	Interdisciplinary	Scaling Undergraduate STEM Transformation and Institutional Networks for Engaged Dissemination
2	144	SL	O242	Kent State University	Anne	Jefferson	Geosciences	Hands-On Experiences with Stable Isotopes in the Geosciences Curriculum
1	145	SL	O351	Black Hills State University	Andy	Johnson	Physics	Inquiry into Radioactivity – Enabling Radiation Literacy
2	290	LT&C	O297	Elmhurst College	Jon	Johnson	Interdisciplinary	The Elmhurst College KEYSTONE Program
1	146	SL	O32	West Chester University	Susan	Johnston	Biological Sciences	Changing Student Misconceptions about Evolution in Introductory Biological Anthropology Courses
2	147	SL	O160	University of Alabama in Huntsville	Laurie	Joiner	Engineering	Enhancing Undergraduate Education in Signals and Signal Processing using Advanced UltraWideband Technology
1	148	SL	O33	East Tennessee State University	Thomas	Jones	Biological Sciences	Virtual Biology Lab 2.0: improving and implementing an inquiry-based educational resource
2	149	SL	O161	University of North Dakota	Naima	Kaabouch	Engineering	Building a Nanoscience and Nanotechnology Program for Engineering Undergraduate Students
1	150	SL	O243	University of Alaska Fairbanks	Ute	Kaden	Geosciences	GP-EXTRA: Preparing GeoSTEM Teachers for the Arctic Region (GeoSTEM)
2	30	IT	O34	University of Wisconsin, River Falls	Michael	Kahlow	Biological Sciences	Implementation of the GREAT Falcon STEP Program at the University of Wisconsin – River Falls.
1	31	IT	O89	Williams College	Lawrence	Kaplan	Chemistry	Forensic Science: Workshops, Symposia and Community Scholars
2	151	SL	O162	University of Colorado Denver	Arunprakash	Karunanithi	Engineering	Improving Systems Thinking among Undergraduate Engineering Students
1	152	SL	O163	University of South Florida	Autar	Kaw	Engineering	Flipped vs Blended (Not Traditional) Course: A Comparison of Student Cognitive and Affective Learning Gains
2	153	SL	O35	University of California, Davis	Susan	Keen	Biological Sciences	Self-guided Learning Modules for Animal Development
1	154	SL	O332	North Carolina State University	Karen	Keene	Mathematics	Calculus for Elementary Teachers: An Innovative Project
2	291	LT&C	O90	San Jose State University	Resa	Kelly	Chemistry	Visualization Design -Charting a path for progress
1	32	IT	O298	University of West Georgia	Farooq	Khan	Interdisciplinary	Evidence-Based Teaching and Learning: Steps toward increased faculty buy-in and institutional support
2	155	SL	O164	Washington State University, Vancouver	Dave	Kim	Engineering	Crossing the Threshold by Supporting Writing Transfer in Introductory Engineering Laboratories

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1	156	SL	O165	Northwestern University	Gloria	Kim	Engineering	IUSE: EHR - Enhancing and Expanding Experiential Learning Modules across Disciplines and Institutions
2	157	SL	O116	North Carolina Agricultural and Technical State University	Jung Hee	Kim	Computer Science	Improving Student Computer Programming Understanding and Engagement
1	292	LT&C	O166	Wayne State University	Kyoung-yun	Kim	Engineering	The Trouble with Cyber-learning
2	158	SL	O167	University of Texas at El Paso	Namsoo	Kim	Engineering	Printing Innovative Nano-Engineering Technology Research & Elite Education (PINE TREE) Program
1	293	LT&C	O244	Western Carolina University	David	Kinner	Geosciences	Collaborative Course-based Research Experiences Across the Geosciences Curriculum
2	159	SL	O36	California Polytechnic State University	Christopher L.	Kitts	Biological Sciences	Fostering Interdisciplinary Collaboration in the Undergraduate Stem Curriculum Through Teaching in Concert
1	160	SL	O168	Oklahoma State University	Matthew	Klopfstein	Engineering	NUe: Nanotechnology Education for Roll-to-Roll Manufacturing
2	294	LT&C	O169	Louisiana State University	F. Carl	Knopf	Engineering	An Energy Sustainability Remote Laboratory (ESRL)
1	161	SL	O37	Calvin College	David	Koetje	Biological Sciences	Instilling Scientific Competencies in First-Year Students via Cell/Molecular-Based Food Research
2	33	IT	O299	Oregon State University	Milo	Koretsky	Interdisciplinary	Enhancing STEM Education at Oregon State University (ESTEME@OSU)
1	162	BP	O171	Arizona State University	Stephen	Krause	Engineering	Factors Impacting Retention and Success of Undergraduate Engineering Students
2	295	LT&C	O172	Arizona State University	Stephen	Krause	Engineering	Scaling a Contextualized, Engagement and Feedback Pedagogy with Faculty Development
1	344	SL	O170	Arizona State University	Stephen	Krause	Engineering	Impacting Faculty Beliefs and Practices and the Positive Effects on Undergraduate Engineering Students
2	163	SL	O173	Illinois Institute of Technology	Mahesh	Krishnamurthy	Engineering	Teaching Science Through Technology
1	296	LT&C	O117	Ramapo College of New Jersey	Amruth	Kumar	Computer Science	Attrition in the Introductory Computer Science
2	297	LT&C	O352	Bucknell University	Edwin	Ladd	Physics	Mixing the Real World, Real Data, and Computer Visualization to Deepen Student Understanding of the Structure of the Universe
1	34	IT	O300	California State University, Bakersfield	Charles	Lam	Interdisciplinary	One-week Summer Program for At-Risk Students
2	35	IT	O38	Unity College	Michael (Drew)	LaMar	Biological Sciences	QUBES: Improving Quantitative Biology Education
1	164	SL	O39	California State University, Sacramento	Thomas	Landerholm	Biological Sciences	The Sustainable Interdisciplinary Research to Inspire Undergraduate Success (SIRIUS) Project
2	165	SL	O174	University of Pittsburgh	Amy	Landis	Engineering	Assessment of Sustainability Grand Challenges in Engineering Curricula
1	166	SL	O245	Santa Fe College	Heidi	Lannon	Geosciences	Recruiting Challenges in Geosciences in the 2-year College Environment
2	36	IT	O40	University of California, Davis	Delmar	Larsen	Biological Sciences	Developing and Assessing Effective Cyberlearning within the STEMWiki Open Access Hyperlibrary Textbook Resource

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1	298	LT&C	O358	University of Colorado, Boulder	Sandra	Laursen	Research or Assessment	Development of a Validated Self-Report Instrument
2	167	SL	O175	University of Maryland, College Park	Wesley	Lawson	Engineering	An Application-driven Introductory C Programming Language Course for Freshman Using the Raspberry Pi
1	299	LT&C	O176	Georgia Institute of Technology	Joseph	Le Doux	Engineering	Understanding the impact of the Problem Solving Studio on students' learning approaches
2	168	SL	O333	North Carolina State University	Hollylynn	Lee	Mathematics	Preparing to Teach Mathematics with Technology: An Integrated Approach
1	37	IT	O41	Georgia Perimeter College	Pamela	Leggett-Robinson	Biological Sciences	Cultivating STEM Identity & Belonging through Civic Engagement
2	345	BP	O301	Edmonds Community College	Deann	Leoni	Interdisciplinary	Transforming STEM at Two-Year Colleges
1	346	BP	O118	Sustainable Horizons Institute	Mary Ann	Leung	Computer Science	Expanding and Broadening Undergraduate Learning through Focused Technical Conference Submission Workshop
2	38	IT	O101	Virginia Tech	Stephanie	Lewis	Chemistry	Pipeline to Success for and Retention of STEM Students
2	39	IT	O119	Indiana University-Purdue University Indianapolis	Feng	Li	Computer Science	Creating Virtual Research, Interactive, Service, and Experiential Learning Modules for Cyber Security Education
1	169	SL	O120	Johns Hopkins University	Xiangyang	Li	Computer Science	Developing Virtual and Experiential Learning Materials for Multiple Cybersecurity Educational Paths
2	170	SL	O177	University of California, Davis	Barbara	Linke	Engineering	An Integrated STEM Approach for Studying Aerospace Design and Manufacturing
1	171	SL	O42	Central Michigan University	Debra	Linton	Biological Sciences	Next Generation Science Teacher Preparation: Preliminary Results
2	172	SL	O178	Penn State University	Thomas	Litzinger	Engineering	Quantitative Methods to Study Instructional Practices in Engineering Education
1	173	SL	O121	Rochester Institute of Technology	Xumin	Liu	Computer Science	Incorporating Service-Oriented Programming into the Computer Science Curriculum using Course Modules
2	174	SL	O43	Michigan State University	Tammy	Long	Biological Sciences	Simplifying the Complexity of Biological Systems Learning
1	175	SL	O334	California State University, Fullerton	Michael	Loverude	Mathematics	Research on Learning and Teaching at the Physics-Mathematics Interface
2	300	LT&C	O353	Loyola University, Maryland	Mary	Lowe	Physics	Teaching about Fiber Optics in Medicine, the Respiratory System, and the Gamma Camera
1	176	SL	O246	Queens College - CUNY	Allan	Ludman	Geosciences	Freshman Year to Geoscience Career
2	177	SL	O247	Northern Illinois University	Wei	Luo	Geosciences	Advantages of a Web-based Interactive Landform Simulation Model of Grand Canyon (WILSIM-GC) in enhancing students' learning
1	178	SL	O248	Florida Gulf Coast University	James	MacDonald	Geosciences	Integrating a Course-based Undergraduate Research Experience (CURE)
2	179	SL	O249	College of William and Mary	R. Heather	Macdonald	Geosciences	Shaping the Future of Geoscience Education Research: A Community Effort
1	40	IT	O122	Colorado State University	Anthony	Maciejewski	Computer Science	Revolutionizing Engineering Departments at Colorado State University and Beyond
1	301	LT&C	O123	University of North Carolina at Charlotte	Mary Lou	Maher	Computer Science	The Connected Learner: Design Patterns for Transforming Computing and Informatics Education

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1	347	BP	O179	Purdue University	Joyce	Main	Engineering	An Engineer Like Me: How Perceived Similarity and Peer Effects Influence Student Major Choice
2	41	IT	O250	Carleton College	Cathryn	Manduca	Geosciences	Impact of On the Cutting Edge Professional Development Program on Geoscience Teaching
1	42	IT	O302	Concordia College	Heidi	Manning	Interdisciplinary	Transforming the Institutional Culture to Promote Innovation and Change in First-Year Education
2	348	BP	O335	Rochester Institute of Technology	Carol	Marchetti	Mathematics	Creating Tools for Learning Statistics: An exploratory project to benefit deaf and hard of hearing students
1	180	SL	O180	University of Missouri	Rose	Marra	Engineering	Developing Metacognitive Skills in an Undergraduate Problem-based Learning Undergraduate Engineering
2	302	LT&C	O91	Grinnell College	Elaine	Marzluff	Chemistry	Transforming Undergraduate Physical Chemistry Education
1	43	IT	O44	American Physiological Society	Marsha	Matyas	Biological Sciences	Improving Physiology Education through a Community of Practice
2	181	SL	O251	North Carolina State University	David	McConnell	Geosciences	Using Videos to Improve Learning and Flip Large Introductory Geoscience Courses
1	44	IT	O354	American Association of Physics Teachers	Sarah	McKagan	Physics	PhysPort: Supporting physics teaching with research-based resources
2	303	LT&C	O336	University of South Carolina	Douglas	Meade	Mathematics	Assessing Maplets for Calculus – Methods and Conclusions
1	45	IT	O45	University of South Florida	Gerry	Meisels	Biological Sciences	Systemic Transformation of Education Through Evidence-Based Reforms
2	182	SL	O303	Arizona State University	David	Meltzer	Interdisciplinary	Measurement and Characteristics of Evidence-based Instruction in Physics
1	46	IT	O181	University of Illinois at Urbana/Champaign	Jose	Mestre	Engineering	Creating Institution-level Change in Instructional Practice Through Faculty Communities of Practice
2	183	SL	O304	California College of the Arts	Christine	Metzger	Interdisciplinary	Exploring Science in the [Art + Design] Studio: Mobile Units for Scientific Exploration
1	184	SL	O252	UNAVCO	Meghan	Miller	Geosciences	Undergraduate Teaching Modules Featuring Geodesy Data Applied to Critical Social Topics
2	304	LT&C	O182	Iowa State University	Kyung	Min	Engineering	Life-Cycle Decision Making for Complex Projects under Uncertainty
2	185	SL	O253	Montana State University	David	Mogk	Geosciences	Teaching Geoethics Across the Geoscience Curriculum
1	186	SL	O305	North Dakota State University	Jennifer	Momsen	Interdisciplinary	Assessing by Design: Unpacking the Role of Formative Assessment in Student Learning
2	187	SL	O337	St. Mary's College of Maryland	Heather	Moon	Mathematics	Collaborative Research: Data-Driven Applications Inspiring Upper-Division Mathematics
1	349	BP	O46	Ecological Society of America	Teresa	Mourad	Biological Sciences	What Do Employers Expect of Recent Graduates in Entry Level Environmental Biology Careers?
2	188	SL	O254	Clemson University	Stephen	Moysey	Geosciences	An Example of Virtual Reality in Geoscience Education
1	305	LT&C	O92	Allegheny College	Shaun	Murphree	Chemistry	MIBLabs: Inquiry-based instructional organic labs featuring microwave-assisted synthesis
2	189	SL	O93	University of Wisconsin-Milwaukee	Kristen	Murphy	Chemistry	Integrating Scale as Theme into Instruction in General Chemistry
1	190	SL	O47	Brooklyn College - CUNY	Theodore	Muth	Biological Sciences	Big City, Big Data: Student Driven Characterization of the

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								Urban Microbiome
2	191	SL	O183	James Madison University	Jacquelyn	Nagel	Engineering	Enhancing the Pedagogy of Bio-inspired Design in an Engineering Curriculum
1	192	SL	O184	James Madison University	Robert	Nagel	Engineering	University Maker Spaces: Discovery, Optimization and Measurement of Impacts
2	193	SL	O185	Old Dominion University	Gon	Namkoong	Engineering	Developing a Student Learning Strategy to Bridge Virtual Learning and Hands-on Activity
1	350	BP	O186	University of North Dakota	Rachel	Navarro	Engineering	Envisioning a Future with Higher Representation of Latino/as and Women in Engineering
2	47	IT	O306	George Mason University	Jill	Nelson	Interdisciplinary	SIMPLE Design Framework for Teaching Development Across STEM
1	194	SL	O48	George Mason University	Mary	Nelson	Biological Sciences	Improved Understanding, Grades and Retention
2	195	SL	O49	Armstrong State University	Traci	Ness	Biological Sciences	Laboratories Engaging students in the Application and Process of Science (LEAPS) in College-Level Introductory Biology
1	196	SL	O50	University of Pittsburgh	Timothy	Nokes-Malach	Biological Sciences	Build, Understand, & Tune Interventions that Cumulate to Real Impact
2	197	SL	O255	Indiana University	Robert	Nosofsky	Geosciences	Enhancing Learning of Scientific Classifications Through Guidance of Formal Models of Human Category Learning
1	198	SL	O187	Purdue University	Matthew	Ohland	Engineering	Optimizing Student Team Skill Development Using Evidence-based Strategies
2	48	IT	O307	Salisbury University	Karen	Olmstead	Interdisciplinary	A Portfolio Approach to Increase Recruitment, Retention and Graduation of STEM Majors at Salisbury University
1	199	SL	O51	University of Maine at Machias	William	Otto	Biological Sciences	Machias Initiative for Science and Technology (MIST) to Transform Transition and First-Year STEM Experiences
2	200	SL	O52	North Seattle College	Kalyn	Owens	Biological Sciences	Transforming STEM Education at a Two-year College through Interdisciplinary Investigations (IDIs)
1	306	LT&C	O94	St. Mary's University	Susan	Oxley	Chemistry	Development of an Urban, Field-Based Environmental Chemistry Course to Improve Learning Outcomes
2	201	SL	O188	Illinois Institute of Technology	Tongyan	Pan	Engineering	Development of a Cross-Departmental Engineering Minor in Nano Surface (Nano-SurfEng) at Undergraduate Level
1	49	IT	O53	University of Nebraska at Omaha	Mark	Pauley	Biological Sciences	RCN-UBE: Network for Integrating Bioinformatics into Life Sciences Education (NIBLSE)
2	50	IT	O54	University of Nebraska at Omaha	Mark	Pauley	Biological Sciences	Integrating Bioinformatics into the Life Sciences – Phase 2
1	51	IT	O95	California State University, Northridge	Vicki	Pedone	Chemistry	Students Targeting Engineering and Physical Science (STEPS) at California State University Northridge (CSUN)
2	202	SL	O55	Purdue University	Nancy	Pelaez	Biological Sciences	Forging Productive Relationships to Advance Student Competence in Biological Experimentation
1	307	LT&C	O189	Embry-Riddle Aeronautical University	James	Pembridge	Engineering	Using Video-Annotated Peer Review to Support the Diffusion of Evidence-Based Instruction Practices
2	52	IT	O308	University of Nebraska-Lincoln	Lance	Perez	Interdisciplinary	Adopting Research Based Instructional Strategies for Enhancing STEM Education
1	203	SL	O96	University of Nebraska-Lincoln	Lance	Pérez	Chemistry	Abstraction Thresholds in Undergraduate STEM Curricula

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2	308	LT&C	O97	University of Colorado, Boulder	Katherine	Perkins	Chemistry	Using Interactive Simulations to Transform Undergraduate Chemistry Education
1	204	SL	O190	University of Georgia	Ramana	Pidaparti	Engineering	Enhancing the Pedagogy of Bio-inspired Design in an Engineering Curriculum
2	351	BP	O124	University of Delaware	Lori	Pollock	Computer Science	Exploring Virtual Interactive Models for Large Scale Research
1	205	SL	O359	Washington State University	Shelley	Pressley	Research or Assessment	Jump Starting Research: Pre-Research STEM Programs
2	206	SL	O191	University of Washington	Stephanie	Pulford	Engineering	Engineering Writing Apprehension, Engineering Writing Affinity
1	352	BP	O56	Broward College	Michael	Pullin	Biological Sciences	An Innovative Science Teaching Institute at Broward College
2	207	SL	O192	Rowan University	Ravi	Ramachandran	Engineering	Vertical Integration of Biometrics Across the Undergraduate ECE Curriculum
1	309	LT&C	O193	Purdue University	Karthik	Ramani	Engineering	Evaluating the Efficacy of a Computer-Aided Exploration Interface in Augmenting Engineering Design Learning
2	208	SL	O338	Clarkson University	Michael	Ramsdell	Mathematics	COMPASS (Co-Ordinated Math and Physics Assessment for Student Success)
1	209	SL	O194	Prairie View A&M University	Rambod	Rayegan	Engineering	Learning by Practice: Introducing a New Elective Course and Laboratory in Building Energy Efficiency
2	53	IT	O309	Association of Public and Land-grant Universities	Kacy	Redd	Interdisciplinary	Network of STEM Education Centers (NSEC)
1	210	SL	O57	University of Maryland, College Park	Edward	Redish	Biological Sciences	Understanding and Overcoming Barriers to Using Mathematics in Science
2	211	SL	O339	Swarthmore College	K. Ann	Renninger	Mathematics	Online Collaboration to Understand Pre-Service Teachers' Developing MKT
1	212	SL	O58	Duke University	Julie	Reynolds	Biological Sciences	Genre Analysis of Undergraduate Theses: Uncovering Different Ways of Writing and Thinking in Science Disciplines
2	310	LT&C	O98	Florida Atlantic University	Evonne	Rezler	Chemistry	Integrating Raman Spectroscopy into the Chemistry Curriculum
1	311	LT&C	O256	Institute for BP	Lois	Ricciardi	Geosciences	GP EXTRA: Minorities Striving and Pursuing Higher Degrees of Success GEO-REU: Evaluation Design
2	213	SL	O125	Duke University	Susan	Rodger	Computer Science	JFLAP: Software and Curriculum for Presenting Theoretical Computer Science in a More Visual and Interactive Manner
1	214	SL	O257	University of Massachusetts, Lowell	Juliette	Rooney-Varga	Geosciences	World Climate: Memorable, Engaging, and Scientifically Rigorous Climate Change Education
2	54	IT	O355	Bradley University	Kelly	Roos	Physics	Integrating Computation into Undergraduate Physics
1	55	IT	O59	Georgetown University	Anne	Rosenwald	Biological Sciences	NextGen Genome Solver – Faculty Development in Bioinformatics
2	215	SL	O310	Virginia Commonwealth University	Suzanne	Ruder	Interdisciplinary	Developing Materials to Assess Process Skills in Active learning Classrooms
1	216	SL	O195	University of Florida	Nancy	Ruzycski	Engineering	Activities That Build Towards Critical Thinking in Materials Science Laboratory Courses
2	56	IT	O311	Chicago State University	Mel	Sabella	Interdisciplinary	Leveraging the Culture and Resources of Urban Stem Students to Develop an Effective Learning Assistant Program
1	312	LT&C	O360	Harvard University	Philip	Sadler	Research or	The Impact of Pre-College Outreach Activities of Colleges and

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							Assessment	Universities
2	217	SL	O60	University of California, Los Angeles	Erin	Sanders	Biological Sciences	A Scalable Framework for Designing Authentic Undergraduate Research Experiences
1	218	SL	O196	West Virginia University	Lizzie	Santiago	Engineering	Introducing Non-Calculus Ready First Year Students to Engineering Concepts and Critical Thinking Skills
2	219	SL	O197	Rice University	Ann	Saterbak	Engineering	Implementing a Flipped Classroom Model for First-Year Engineering Design
1	57	IT	O340	Mathematical Assoc of America	Karen	Saxe	Mathematics	A Common Vision for the Undergraduate Mathematics Program in 2025
2	58	IT	O258	University of San Francisco	Calla	Schmidt	Geosciences	Field Based Professional Development for Environmental-STEM ESTEM Undergraduates
1	220	SL	O198	University of Maryland, College Park	Linda	Schmidt	Engineering	Design Journals Worked for DaVinci
2	313	LT&C	O99	University of Wisconsin, River Falls	Jamie	Schneider	Chemistry	The Effect of Feedback During Multiple Choice Chemistry Assessment
1	353	BP	O312	University of Central Florida	Kimberly	Schneider	Interdisciplinary	L.E.A.R.N.ing To Build STEM Research Communities
2	221	SL	O259	Rutgers University	Oscar	Schofield	Geosciences	RU COOL's Scalable Educational Focus on Immersing Society in the Ocean Through Ocean Observing Systems
1	59	IT	O356	Delta College	Scott	Schultz	Physics	New Faculty Experience for TYC Physics Instructors
2	222	SL	O61	University of Tennessee, Knoxville	Elisabeth	Schussler	Biological Sciences	Concept, Competency, and Community-Driven Curriculum Reform in Undergraduate Biology Education (C3UBE)
1	223	SL	O199	University of Illinois at Chicago	Michael	Scott	Engineering	Development of a Concept Inventory for Functional Reasoning in Design Engineering
2	224	SL	O200	California Polytechnic State University	Brian	Self	Engineering	Using Inquiry-Based Activities to Repair Student Misconceptions in Engineering Dynamics
1	314	LT&C	O100	North Dakota State University	William	Shay	Chemistry	Remote Access Spectroscopy and Chromatography to Create an Authentic Laboratory Environment
2	60	IT	O201	Stevens Institute of Technology	Keith	Sheppard	Engineering	Revision of Freshman Calculus To Improve Success of Engineering Undergraduates
1	354	BP	O62	Bucknell University	George	Shields	Biological Sciences	Using Early Introduction to Undergraduate Research to Recruit, Retain, and Graduate More STEM Majors
2	225	SL	O313	University of Michigan	Ginger	Shultz	Interdisciplinary	Accelerating the Pace of Research and Implementation of Writing-to-Learn Pedagogies across STEM Disciplines
1	226	SL	O202	University of Oklahoma	Zahed	Siddique	Engineering	Students Learning From Each Other in a Flat Course Setting—What Influences Knowledge Transfer?
2	355	BP	O203	Colorado State University	Thomas	Siller	Engineering	Engineering and Education Partnership: Preparing the Next Generation of Cross Disciplinary STEM Teachers
1	315	LT&C	O341	National Council of Teachers of Mathematics	Jason	Silverman	Mathematics	Developing Undergraduate STEM Interest Through Web Page Development Linking Interesting Visual Images and Math
2	61	IT	O342	Foothill College	Lori	Silverman	Mathematics	STEMWay
1	316	LT&C	O204	University of Kentucky	David	Silverstein	Engineering	Examining the Application of Short-From Video in Autodidactic and Peer Instructional Modes
2	227	SL	O364	North Carolina Agricultural	Scott	Simkins	Social/Behavioral	The Math You Need, When You Need It: Modular Student

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				and Technical State University			Sciences	Resources to Promote Successful Application of 'Math in Context' in Introductory Economics Courses
1	62	IT	O126	Clemson University	Murali	Sitaraman	Computer Science	Teaching and Assessment of Logical Reasoning Skills
2	63	IT	O314	University of Maine	Michelle	Smith	Interdisciplinary	Documenting STEM Education Practices at a Campus-Wide Level and Using Data to Guide Institutional Change
1	64	IT	O361	Association of American Universities	Tobin	Smith	Research or Assessment	Measuring Progress toward Systemic Change in Undergraduate STEM Teaching and Learning
2	228	SL	O205	Tuskegee University	John	Solomon	Engineering	Collaborative Research: Tailored Instruction and Engineered Delivery Using Protocols TIED UP)
1	317	LT&C	O206	Green River College	Chitra	Solomonson	Engineering	Introducing Research Experiences at Community Colleges
2	229	SL	O207	Ohio State University	Sheryl	Sorby	Engineering	A Concept Inventory for Engineering Design Graphics
1	230	SL	O208	Arizona State University	Andreas	Spanias	Engineering	The Use of Cell Phones and Tablets in Education
2	65	IT	O63	Emory University	Rachelle	Spell	Biological Sciences	Research/Education Partnerships Fostering Course-based Research Experiences
1	231	SL	O343	University of North Georgia	Dianna	Spence	Mathematics	Discovery Projects in Statistics: Development of Resources and Investigation of Implementation and Impact
2	318	LT&C	O209	Wayne State University	Mukasa	Ssemakula	Engineering	The Manufacturing Integrated Learning Laboratory (MILL) as a Model for STEM Education
1	356	BP	O64	Willamette University	Stasinos	Stavrianeas	Biological Sciences	STATUS: Implementing Pre-college STEM Access and Training for Underserved Students
2	232	SL	O260	University of Texas at Dallas	Robert	Stern	Geosciences	A New Animation of Subduction Zone Processes Developed for the Undergraduate and Community College Audience
1	233	SL	O261	University of Florida	Kathryn	Stofer	Geosciences	Integrating First-Year Undergraduates into Research Experiences
2	234	SL	O365	Southern Methodist University	Jonathan	Stolk	Social/Behavioral Sciences	Can a System Based on Extrinsic Drive Promote Intrinsically Motivated Learning?
1	319	LT&C	O102	Hood College	Christopher	Stromberg	Chemistry	Expanding Instrumentation Access at Multiple Institutions Using Portable IR, Raman, and XRF Spectrometers
2	235	SL	O315	Massachusetts College of Liberal Arts	Nicholas	Stroud	Interdisciplinary	Results from the First Year of the Teaching to Learn Project
1	236	SL	O127	University of North Carolina at Charlotte	Kalpathi	Subramanian	Computer Science	BRIDGES: A System to Enable Creation of Engaging Data Structures Assignments
2	66	IT	O210	Oregon State University	James	Sweeney	Engineering	Re-Situating Student Learning in Chemical, Bio- and Environmental Engineering
1	237	SL	O65	Whittier College	Cheryl	Swift	Biological Sciences	Students as Scholars
2	238	SL	O316	University of Colorado Denver	Robert	Talbot	Interdisciplinary	Specifying a Hierarchical Linear Model and Interpretive Framework
1	239	SL	O211	University of California, San Diego	Andrea	Tao	Engineering	Development of a Computational Curriculum for Undergraduates in NanoTechnology and NanoEngineering
2	240	SL	O317	Sacramento State	Lynn	Tashiro	Interdisciplinary	Peer Assisted Student Success: The Sacramento State PASS Program
1	241	SL	O66	Wabash College	Ann	Taylor	Biological Sciences	Using Targeted Homework and Embedded Review Activities in a Biochemistry Course

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2	320	LT&C	O67	Rochester Institute of Technology	Robert	Teese	Biological Sciences	Interactive Video Vignettes: A Tool for Teaching and Insight into Student Thinking
1	357	BP	O212	Old Dominion University	Karen	Thole	Engineering	The Engineering Ambassadors Network: A Professional Development Program with an Outreach Mission
2	242	SL	O213	University of Alaska Fairbanks	Denise	Thorsen	Engineering	Using Collaborative Lab Data to Improve Critical Thinking
1	243	SL	O103	Purdue University	Marcy	Towns	Chemistry	Investigating Student Understanding of Chemical Kinetics
2	358	BP	O128	Western Michigan University	Edmund	Tsang	Computer Science	Scale Up and Sustain Building Cohorts to Increase Success of Students with Diverse Academic Preparation Backgrounds
1	244	SL	O214	University of Texas at El Paso	Tzu-Liang (Bill)	Tseng	Engineering	E-learning Enhancement for 3D Printing Technologies in Virtual Environment
2	359	BP	O68	Chaminade University	Helen	Turner	Biological Sciences	Educating at the Science-Culture Interface in Hawaii and the Pacific
1	67	IT	O318	University of California, Los Angeles	Patricia	Turner	Interdisciplinary	Transforming the Culture of Teaching and Learning at a Public Research University
2	321	LT&C	O69	George Mason University	Mark	Uhen	Biological Sciences	Leveraging 'Big Data' to Explore Big Ideas
1	360	BP	O215	Rensselaer Polytechnic Institute	Chaitanya	Ullal	Engineering	Teaching Outreach as a Learning Experience in Nanotechnology
2	322	LT&C	O104	Indiana University-Purdue University Indianapolis	Pratibha	Varma-Nelson	Chemistry	Cyber Peer-Led Team Learning (cPLTL) in Organic Chemistry
1	323	LT&C	O216	Florida International University	Shahin	Vassigh	Engineering	Architects and Engineers use Augmented Reality to Address "Building Science" Educational Challenges
2	245	SL	O262	University of Texas at El Paso	Aaron	Velasco	Geosciences	GP_EXTRA: Academic Year Pathways Research Experience Program (AY-PREP)
1	361	BP	O129	Merrimack College	Marc	Veletzos	Computer Science	Foundations for STEM Success: Implementing National Best Practices in a Liberal Arts College Setting
2	324	LT&C	O217	Bucknell University	Margot	Vigeant	Engineering	Design for Impact - Testing Educational Materials Faculty Will Use
1	325	LT&C	O218	Purdue University Calumet	Chandramouli	Viswanathan	Engineering	Virtual 3D Lab Modules for a Flooding System to Enhance Student Learning
2	362	BP	O219	University of Oklahoma	Susan	Walden	Engineering	The Privilege of Student, Experiential-Learning, Engineering Competition Teams (SELECT)
1	326	LT&C	O220	Clemson University	Ian	Walker	Engineering	Interdisciplinary Learning about Robots: Approaches and Assessment
2	246	SL	O221	Harvard University	Conor	Walsh	Engineering	Towards a Pedagogical Framework for Undergraduate Project-Based Engineering Design Courses
1	247	SL	O263	University of Houston	Guoquan	Wang	Geosciences	Effective Use of Indirect Assessment to Improve the Quality of a Research Course
2	327	LT&C	O264	University of Houston	Guoquan	Wang	Geosciences	Integrating GPS and LiDAR into Undergraduate Geoscience Education at the University of Houston
1	248	SL	O265	University of South Florida	Ping	Wang	Geosciences	Bringing Problem Solving in the Field into the Classroom
2	249	SL	O130	Michigan Technological University	Xinli	Wang	Computer Science	ITSEED: Hands-on Laboratories for IT Security Education
1	250	SL	O344	Winona State University	Aaron	Wangberg	Mathematics	Raising Calculus to the Surface

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2	251	SL	O70	University of North Carolina Asheville	Jennifer	Ward	Biological Sciences	A CEREUUS Approach to Assessing Ecological Responses in the Southern Appalachians to Environmental Change
1	252	SL	O362	North Carolina A&T State University	Cindy	Waters	Research or Assessment	Collaborative Research: Understanding and Reducing Student Resistance as a Barrier to Faculty Change
2	253	SL	O319	Westminster College	Sandra	Webster	Interdisciplinary	From Pivot to Prototype: Behavioral Research Instruction Through Experiments
1	328	LT&C	O105	Bates College	Thomas	Wenzel	Chemistry	E-Learning Modules that Incorporate Active Learning into the Undergraduate Analytical Chemistry Curriculum
2	254	SL	O266	James Madison University	Steven	Whitmeyer	Geosciences	Interactive Digital Learning for Geoscience Students: Earthquakes and Other Web-hosted Challenges
1	329	LT&C	O320	Portland State University	Ralf	Widenhorn	Interdisciplinary	Multimedia Modules for Physics Instruction in a Flipped Classroom Course for Pre-health and Life Science Majors
2	255	SL	O71	Claremont McKenna, Pitzer, Scripps Colleges	Emily	Wiley	Biological Sciences	Building Consortiums to Engage Students in Collaborative Research Focused on Science Community Needs
1	68	IT	O72	West Virginia University	Michelle	Withers	Biological Sciences	Mobile Summer Institutes: An Approach to Creating Points of Transformation to Facilitate Adoption of Reformed Teaching
2	256	SL	O73	Radford University	Jeremy	Wojdak	Biological Sciences	AIMS: Analyzing Images to learn Mathematics and Statistics
1	330	LT&C	O222	Temple University	Chang-Hee	Won	Engineering	Enhancing an Open Laboratory-Based Circuits Experience with a Virtual Laboratory Assistant
2	363	BP	O131	Rutgers University	Rebecca	Wright	Computer Science	Living-Learning Communities for Women in Computer Science
1	257	SL	O74	University of Minnesota	Robin	Wright	Biological Sciences	Integrated Science Education for Discovery in Introductory Biology (InSciED-In) at the University of Minnesota
2	331	LT&C	O106	Wabash College	Laura	Wysocki	Chemistry	Translating Technical Information: Scientists and the Public
1	332	LT&C	O223	University of Central Florida	Yunjun	Xu	Engineering	Interactive and Integrated Visualization Modules as a Secondary Learning Tool
2	333	LT&C	O107	Carnegie Mellon University	David	Yaron	Chemistry	The Chemcollective: Learning about Learning from Student Interactions with Online Resources
1	334	LT&C	O345	Texas A&M University	Philip	Yasskin	Mathematics	Developing Maplelets for Calculus Version 1.4
2	258	SL	O224	Iowa State University	Seda	Yilmaz	Engineering	Characterizing Cognitive Heuristics Used in Defining Engineering Design Problems
1	259	SL	O346	Cal Poly San Luis Obispo	Stan	Yoshinobu	Mathematics	The Inquiry-Based Learning Workshop Model: Professional Development of Undergraduate Math Instructors
2	260	SL	O347	University of Virginia	Peter	Youngs	Mathematics	The Development of Ambitious Instruction in Elementary Mathematics
1	335	LT&C	O225	University of Miami	Weizhao	Zhao	Engineering	Web-based Medical Imaging Courseware Development and Application
2	69	IT	O75	Alabama A&M University	Xiang	Zhao	Biological Sciences	Pave the Pathway for Adopting Evidence-Based Pedagogies in STEM Foundational Courses at Alabama A&M University
1	364	BP	O108	Jackson State University	Wei	Zheng	Chemistry	Implementation and Outcomes of Scaffolding Cyber-Enabled Collaborative Learning in Multiple STEM Courses
2	261	SL	O132	Georgia State University	Ying	Zhu	Computer Science	How to Teach Debugging in Undergraduate Computer Graphics Courses?