Spring 2014 Junior-Senior Engineering Clinic Projects

1 App Development Bakrania 2 Microcombustion Bakrania	ME	ECE	ChE	CEE
2 Microcombustion Bakrania	2	2	0	0
	2	0	3	0
3 Arm motion and control module Kadlowec	2	1	0	0
4 Sheat tests for hydrogels Kadlowec	3	0	1	0
5 Intramedullary rod/screw failure Kadlowec	3	0	0	0
6 Forearm Plate Design Singh	4	0	0	0
7 Treadmill Device Singh	4	0	0	0
8 Physiological Monitoring Merrill	5	1	0	0
9 Computational Biofluids Merrill	3	0	0 0	0
10 CorePal Bhatia	2	0 0	0	Õ
11 Hybrid Powertrain Bhatia	4	0	0	Õ
12 Energy Audit Bhatia	3	0	0	0
13 Turbo-compounding Hybrid Bhatia	2	0	0	0
	6	0		0
14 SAE Supermileage Constans			0	
15 Plasma healing Fridman	2	0	0	0
16 EHAWK Zhang	2	2	0	0
17 Medicine dispenser Zhang	2	2	0	0
18 Quadcopter Zhang	1	2	0	0
	0 0	0	0	0
20 0	0 C	0	0	0
ECE Project Proj. Manager	ME	ECE	ChE	CEE
1 Virtual Reality Volumetric Visualizer for DICOM Patien Lecakes/Mandaya		3	1	1
2 CAVE / Oculus Rift Collaborative Patient Simulator Lecakes/Mandaya		3	1	1
3 Virtual Reality Unity Development w. Web Deploymen Lecakes/Mandaya		3	1	1
4 Laser Analysis of Aggregates Ramachandran	0	2	0	0
5 Biometric System Implementation: Speaker and Face Ramachandran	0 0	2	0 0	0
6 Computational Intelligence - Semisupervised Learning Polikar	1	3	0	Õ
7 Computational Intelligence - Active Learning in Nonsta Polikar	1	3	0	Õ
8 Biomarker Fusion & Domain Adaptation in Medical Dia Polikar	1	3	0	0
9 Brain Computer Interface / Temporal Memory System Samaritano	1	2	0	0
	1	2	0	0
, , , , , , , , , , , , , , , , , , , ,		2 4		0
11 Water Electrolysis for Fuel: Evaluating New Catalysts Krchnavek/Schma			2	
12 Energy Harvesting for Sensor Arrays Krchnavek	0	2	0	
	v 1			0
13 Center for Sustainable Design (CSD) Projects: (1) Adv Schmalzel/Krchna		6	2	1
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna	v∈ 1	4	2 0	1 0
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang	v⊢1 2	4 4	2 0 0	1 0 0
 14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang 16 SustainCity - Serious Games Design Tang 	v⊨ 1 2 2	4 4 4	2 0 0 0	1 0 0 2
 14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang 16 SustainCity - Serious Games Design Tang 17 Cyber Security: Work with sponsor to evaluate securit Schmalzel 	v⊢1 2	4 4 4 3	2 0 0	1 0 0
 14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang 16 SustainCity - Serious Games Design Tang 	v⊨ 1 2 2	4 4 3 2	2 0 0 0	1 0 0 2
 14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang 16 SustainCity - Serious Games Design Tang 17 Cyber Security: Work with sponsor to evaluate securit Schmalzel 18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler 19 Improving Filter Based Feature Selection Wrappers Ditzler 	v 1 2 2 0	4 4 4 3	2 0 0 0 0	1 0 2 0
 14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang 16 SustainCity - Serious Games Design Tang 17 Cyber Security: Work with sponsor to evaluate securit Schmalzel 18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler 	v 1 2 0 1	4 4 3 2	2 0 0 0 0 0	1 0 2 0 0
 14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang 16 SustainCity - Serious Games Design Tang 17 Cyber Security: Work with sponsor to evaluate securit Schmalzel 18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler 19 Improving Filter Based Feature Selection Wrappers Ditzler 	V 1 2 2 0 1	4 4 3 2 2	2 0 0 0 0 0 0	1 0 2 0 0 0
 14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang 16 SustainCity - Serious Games Design Tang 17 Cyber Security: Work with sponsor to evaluate securit Schmalzel 18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler 19 Improving Filter Based Feature Selection Wrappers Ditzler 20 Adaptive virtual reality game for Autism Syndrome Dis Tang 21 Robot Localization using Particle Filters Bouaynaya 	v 1 2 2 0 1 1 1	4 4 3 2 2 2 2	2 0 0 0 0 0 0 0	1 0 2 0 0 0
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna15 Augmented Reality - Wearable Image Guided Surgica Tang16 SustainCity - Serious Games DesignTang17 Cyber Security: Work with sponsor to evaluate securit Schmalzel18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler19 Improving Filter Based Feature Selection WrappersDitzler20 Adaptive virtual reality game for Autism Syndrome Dis Tang21 Robot Localization using Particle FiltersBouaynaya22 Detection of Multistability in Biological SystemsBouaynaya	v 1 2 2 0 1 1 1 0	4 4 3 2 2 2	2 0 0 0 0 0 0 0 0	1 0 2 0 0 0 0 0
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna15 Augmented Reality - Wearable Image Guided Surgica Tang16 SustainCity - Serious Games DesignTang17 Cyber Security: Work with sponsor to evaluate securit Schmalzel18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler19 Improving Filter Based Feature Selection WrappersDitzler20 Adaptive virtual reality game for Autism Syndrome Dis Tang21 Robot Localization using Particle FiltersBouaynaya22 Detection of Multistability in Biological SystemsBouaynaya23 Bactericidal Coatings for Orthopedic ImplantsKrchnavek	V 1 2 2 0 1 1 1 0 0	4 4 3 2 2 2 2 2 2	2 0 0 0 0 0 0 0 0 0	1 0 2 0 0 0 0 0 0
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna15 Augmented Reality - Wearable Image Guided Surgica Tang16 SustainCity - Serious Games Design17 Cyber Security: Work with sponsor to evaluate securit Schmalzel18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler19 Improving Filter Based Feature Selection Wrappers20 Adaptive virtual reality game for Autism Syndrome Dis Tang21 Robot Localization using Particle Filters22 Detection of Multistability in Biological Systems23 Bactericidal Coatings for Orthopedic Implants24 Tesla Art Exhibit: Assist area artist by developing kinet Schmalzel	V 1 2 0 1 1 1 0 0 1 0	4 4 3 2 2 2 2 2 2 2 0	2 0 0 0 0 0 0 0 0 0 1 0	1 0 2 0 0 0 0 0 0 0 0 0
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna15 Augmented Reality - Wearable Image Guided Surgica Tang16 SustainCity - Serious Games Design17 Cyber Security: Work with sponsor to evaluate securit Schmalzel18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler19 Improving Filter Based Feature Selection Wrappers20 Adaptive virtual reality game for Autism Syndrome Dis Tang21 Robot Localization using Particle Filters22 Detection of Multistability in Biological Systems23 Bactericidal Coatings for Orthopedic Implants24 Tesla Art Exhibit: Assist area artist by developing kinet Schmalzel25 Raman Spectroscopy and SEM Evaluation of Syntheti Krchnavek	V 1 2 0 1 1 1 0 0 1 0 0	4 4 3 2 2 2 2 2 2 2 0 1	2 0 0 0 0 0 0 0 1 0 1	1 0 2 0 0 0 0 0 0 0 0 0 0
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna15 Augmented Reality - Wearable Image Guided Surgica Tang16 SustainCity - Serious Games Design17 Cyber Security: Work with sponsor to evaluate securit Schmalzel18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler19 Improving Filter Based Feature Selection Wrappers20 Adaptive virtual reality game for Autism Syndrome Dis Tang21 Robot Localization using Particle Filters22 Detection of Multistability in Biological Systems23 Bactericidal Coatings for Orthopedic Implants24 Tesla Art Exhibit: Assist area artist by developing kinet Schmalzel25 Raman Spectroscopy and SEM Evaluation of Syntheti Krchnavek26 Characterization of Catalysts for Synthetic Fuel Produ Krchnavek	V 1 2 0 1 1 1 0 0 1 0 0 0 0 0	4 4 3 2 2 2 2 2 2 0 1 1	2 0 0 0 0 0 0 0 1 0 1 1	1 0 2 0 0 0 0 0 0 0 0 0 0 0
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna15 Augmented Reality - Wearable Image Guided Surgica Tang16 SustainCity - Serious Games Design17 Cyber Security: Work with sponsor to evaluate securit Schmalzel18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler19 Improving Filter Based Feature Selection Wrappers20 Adaptive virtual reality game for Autism Syndrome Dis Tang21 Robot Localization using Particle Filters22 Detection of Multistability in Biological Systems23 Bactericidal Coatings for Orthopedic Implants24 Tesla Art Exhibit: Assist area artist by developing kinet Schmalzel25 Raman Spectroscopy and SEM Evaluation of Syntheti Krchnavek26 Characterization of Catalysts for Synthetic Fuel Produ Krchnavek27 Evidence Based Detemination of Technology and Sys Atwater / Schmalz	v 1 2 0 1 1 1 0 0 1 0 0 0 0 0 0	4 4 3 2 2 2 2 2 2 0 1 1 1	2 0 0 0 0 0 0 0 0 1 0 1 1 0	1 0 2 0 0 0 0 0 0 0 0 0 0 0 0
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna15 Augmented Reality - Wearable Image Guided Surgica Tang16 SustainCity - Serious Games Design17 Cyber Security: Work with sponsor to evaluate securit Schmalzel18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler19 Improving Filter Based Feature Selection Wrappers20 Adaptive virtual reality game for Autism Syndrome Dis Tang21 Robot Localization using Particle Filters20 Bectericidal Coatings for Orthopedic Implants23 Bactericidal Coatings for Orthopedic Implants24 Tesla Art Exhibit: Assist area artist by developing kinet Schmalzel25 Raman Spectroscopy and SEM Evaluation of Syntheti Krchnavek26 Characterization of Catalysts for Synthetic Fuel Produ Krchnavek27 Evidence Based Detemination of Technology and Sys Atwater / Schmalzel28 Design, Test & Launch of the Database for STEM Syn Head/Hecht	v 1 2 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0	4 4 3 2 2 2 2 2 2 0 1 1 1 2	2 0 0 0 0 0 0 0 0 1 0 1 1 0 0	1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna15 Augmented Reality - Wearable Image Guided Surgica Tang16 SustainCity - Serious Games Design17 Cyber Security: Work with sponsor to evaluate securit Schmalzel18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler19 Improving Filter Based Feature Selection Wrappers20 Adaptive virtual reality game for Autism Syndrome Dis Tang21 Robot Localization using Particle Filters20 Bectericidal Coatings for Orthopedic Implants21 Robot Localization of Multistability in Biological Systems23 Bactericidal Coatings for Orthopedic Implants24 Tesla Art Exhibit: Assist area artist by developing kinet Schmalzel25 Raman Spectroscopy and SEM Evaluation of Syntheti Krchnavek26 Characterization of Catalysts for Synthetic Fuel Produ Krchnavek27 Evidence Based Determination of Technology and Sys Atwater / Schmalz28 Design, Test & Launch of the Database for STEM Syn Head/Hecht29 Digital Pupillometry for continuous, non-invasive meas Izzetoglu/Hirsch	v 1 2 0 1 1 0 0 1 0 0 0 0 0 0 0 0 1 0 0 1	4 4 3 2 2 2 2 2 2 2 0 1 1 1 2 2	2 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0 0	$ \begin{array}{c} 1\\ 0\\ 2\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$
14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna15 Augmented Reality - Wearable Image Guided Surgica Tang16 SustainCity - Serious Games Design17 Cyber Security: Work with sponsor to evaluate securit Schmalzel18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler19 Improving Filter Based Feature Selection Wrappers20 Adaptive virtual reality game for Autism Syndrome Dis Tang21 Robot Localization using Particle Filters20 Bectericidal Coatings for Orthopedic Implants21 Robot Localization using for Orthopedic Implants22 Detection of Multistability in Biological Systems23 Bactericidal Coatings for Orthopedic Implants24 Tesla Art Exhibit: Assist area artist by developing kinet Schmalzel25 Raman Spectroscopy and SEM Evaluation of Syntheti Krchnavek26 Characterization of Catalysts for Synthetic Fuel Produ Krchnavek27 Evidence Based Determination of Technology and Sys Atwater / Schmalz28 Design, Test & Launch of the Database for STEM Syn Head/Hecht29 Digital Pupillometry for continuous, non-invasive meas Izzetoglu/Hirsch30 Enhancement of Wearable Wireless Near Infrared Ser Head	v 1 2 0 1 1 1 0 0 1 0 0 0 1 0 0 1 1	4 4 3 2 2 2 2 2 2 2 2 0 1 1 1 2 2 2 2	2 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0 0 0	$ \begin{array}{c} 1\\ 0\\ 2\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$
 14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang 16 SustainCity - Serious Games Design Tang 17 Cyber Security: Work with sponsor to evaluate securit Schmalzel 18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler 19 Improving Filter Based Feature Selection Wrappers Ditzler 20 Adaptive virtual reality game for Autism Syndrome Dis Tang 21 Robot Localization using Particle Filters Bouaynaya 22 Detection of Multistability in Biological Systems Bouaynaya 23 Bactericidal Coatings for Orthopedic Implants Krchnavek 24 Tesla Art Exhibit: Assist area artist by developing kinet Schmalzel 25 Raman Spectroscopy and SEM Evaluation of Syntheti Krchnavek 26 Characterization of Catalysts for Synthetic Fuel Produ Krchnavek 27 Evidence Based Detemination of Technology and Sys Atwater / Schmalz 28 Design, Test & Launch of the Database for STEM Syn Head/Hecht 29 Digital Pupillometry for continuous, non-invasive meas Izzetoglu/Hirsch 30 Enhancement of Wearable Wireless Near Infrared Ser Head 31 Development of Sleep Mode Firmware for Near Infrare Izzetoglu 	v 1 2 0 1 1 1 0 0 1 0 0 0 1 0 0 1 1 0 0	4 4 3 2 2 2 2 2 2 2 2 0 1 1 1 2 2 2 2 2 2 2 2	2 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0 0 0 0 0	$ \begin{array}{c} 1\\0\\2\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\$
 14 CSD Entrepreneurial: (1) Android Mapping GUI Devel Schmalzel/Krchna 15 Augmented Reality - Wearable Image Guided Surgica Tang 16 SustainCity - Serious Games Design Tang 17 Cyber Security: Work with sponsor to evaluate securit Schmalzel 18 Large (!) Scale Analysis of The Earth Microbiome Proj Ditzler 19 Improving Filter Based Feature Selection Wrappers Ditzler 20 Adaptive virtual reality game for Autism Syndrome Dis Tang 21 Robot Localization using Particle Filters Bouaynaya 22 Detection of Multistability in Biological Systems Bouaynaya 23 Bactericidal Coatings for Orthopedic Implants Krchnavek 24 Tesla Art Exhibit: Assist area artist by developing kinet Schmalzel 25 Raman Spectroscopy and SEM Evaluation of Syntheti Krchnavek 26 Characterization of Catalysts for Synthetic Fuel Produ Krchnavek 27 Evidence Based Detemination of Technology and Sys Atwater / Schmalz 28 Design, Test & Launch of the Database for STEM Syn Head/Hecht 29 Digital Pupillometry for continuous, non-invasive meas Izzetoglu/Hirsch 30 Enhancement of Wearable Wireless Near Infrared Ser Head 	v 1 2 0 1 1 1 0 0 1 0 0 0 1 0 0 1 1	4 4 3 2 2 2 2 2 2 2 2 0 1 1 1 2 2 2 2	2 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0 0 0	$ \begin{array}{c} 1\\ 0\\ 2\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$

S Vmixer Gephardt 0 0 3 0 4 Particle technology: UV sterilization Gephardt 1 0 3 0 6 Multiphase Mixing: scale-up effects. Hesketh 0 0 4 0 6 Green Solvent Process Streams Hesketh 0 0 4 0 9 Bio-based with Greg Hecht Savelski 0 0 3 0 1 CA Problems Development Savelski 0 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 3 Stem Cells Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 3 0 7 Magnetic Biomaterials Vernengo 0 3 0 2 Experiments & Demonstrations for STEM Outreach Jahan 1 1 1 3 Engineers on Wheels Jahan 1 1 1 1 4 Arsenic Removal using Carbon Nanotubes Jahan 0 2 2 </th <th></th> <th>Proj. Manager</th> <th>ME</th> <th>ECE</th> <th>ChE</th> <th>CEE</th>		Proj. Manager	ME	ECE	ChE	CEE
S Vmixer Gephardt 0 3 0 4 Particle technology: UV sterilization Gephardt 1 0 3 0 6 Multiphase Mixing: scale-up effects. Hesketh 0 0 4 0 7 Green Engineering of Process Streams Hesketh 0 0 4 0 9 Bio-based with Greg Hecht Savelski 0 0 2 0 1 CA Problems Development Slater 0 0 3 0 9 Ino-based with Greg Hecht Savelski 0 0 3 0 1 Pharmaceutical and Healthcare Experiments Slater 0 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 5 Heilos Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 0 3 0 7 Magnetic Biomaterials Vernengo 0 1 1 1 1 1 Algae Derived Biofuels:Enhancing Lipid Content		Farrell	0	0	4	0
4 Particle technology: Deagglomeration Gephardt 1 0 3 0 5 Food technology: UV sterilization Gephardt 0 0 3 0 6 Multiphased wiking: scale-up effects. Hesketh 0 0 4 0 8 Green Solvent Process Streams Hesketh 0 0 3 0 9 Bio-based with Greg Hecht Savelski 0 0 3 0 1 Pharmaceutical and Healthcare Experiments Slater 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 4 Planaria and Alcohol Staehle 0 0 4 0 5 Helios Dahm 2 1 4 1 6 Bioadhesive Vermengo 0 0 4 0 7 Magnetic Biomaterials Vermengo 0 1 3 0 2 Experiments & Demonstrations for STEM Outreach Jahan 1 1 1 1 1 1 1 1 2 2 6 5 Sustain (Thy Jahan 1	2 pH sensitive hydrogels	Farrell	0	0	4	0
5 Food technology: UV sterilization Gephardt 0 0 3 0 6 Multiphase Mixing: scale-up effects. Hesketh 0 0 4 0 8 Green Solvent Process Modeling Savelski 0 0 3 0 9 Bio-based with Greg Hecht Savelski 0 0 3 0 1 Pharmaceutical and Healthcare Experiments Slater 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 4 Planaria and Alcohol Staehle 0 0 4 1 6 Bioadhesive Vermengo 0 1 1 3 0 7 Magnetic Biomaterials Vermengo 1 1 3 0 0 1 3 0 2 Experiments & Demonstrations for STEM Outreach Jahan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 0	3 Vmixer	Gephardt	0	0	3	0
6 Multiphase Mixing: scale-up effects. Hesketh 0 0 4 0 7 Green Engineering of Process Streams Hesketh 0 0 4 0 8 Green Solvent Process Modeling Savelski 0 0 3 0 9 Bio-based with Greg Hecht Savelski 0 0 3 0 1 Pharmaceswitcal and Healthcare Experiments Slater 0 0 3 0 2 Alcohol Kinetics Staehle 0 0 4 0 3 Stem Cells Staehle 0 0 4 0 4 Planaria and Alcohol Staehle 0 0 4 0 5 Helios Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 0 3 0 7 Magnetic Biomaterials Vernengo 0 1 3 2 Experiments & Demonstrations for STEM Outreach Jahan 1 1 1 1 Aigae Derived Biofuels:Enhancing Lipid Content Jahan	4 Particle technology: Deagglomeration	Gephardt	1	0	3	0
7 Green Engineering of Process Streams Hesketh 0 0 4 0 8 Green Solvent Process Modeling Savelski 0 0 3 0 9 Bio-based with Greg Hecht Savelski 0 0 3 0 1 Pharmaceutical and Healthcare Experiments Slater 0 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 4 Planaria and Alcohol Staehle 0 0 6 0 5 Helios Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 0 4 0 7 Magnetic Biomaterials Vernengo 0 1 3 0 2 Experiments & Demonstrations for STEM Outreach Jahan 1 1 1 1 3 Engineers on Wheels Jahan 1 0 0 2 0 2 6 Fiber Mechanics Riddell 1 0 0 2 0 2 6 Stastin City Jahan 1 0 0 2 0	5 Food technology: UV sterilization	Gephardt	0	0	3	0
7 Green Engineering of Process Streams Hesketh 0 0 4 0 8 Green Solvent Process Modeling Savelski 0 0 3 0 9 Bio-based with Greg Hecht Savelski 0 0 3 0 1 Pharmaceutical and Healthcare Experiments Slater 0 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 4 Planaria and Alcohol Staehle 0 0 6 0 5 Helios Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 0 4 0 7 Magnetic Biomaterials Vernengo 0 1 3 0 2 Experiments & Demonstrations for STEM Outreach Jahan 1 1 1 1 3 Engineers on Wheels Jahan 1 0 0 2 0 2 6 Fiber Mechanics Riddell 1 0 0 2 0 2 6 Stastin City Jahan 1 0 0 2 0	6 Multiphase Mixing: scale-up effects.	Hesketh	0	0	4	0
8 Green Solvent Process Modeling Savelski 0 0 3 0 9 Bio-based with Greg Hecht Savelski 0 0 3 0 1 Pharmaceutical and Healthcare Experiments Slater 0 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 3 Stem Cells Staehle 0 0 4 0 5 Heinos Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 0 3 0 7 Magnetic Biomaterials Vernengo 1 1 3 0 8 Colon Delivery Vernengo 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 C		Hesketh	0	0	4	
9 Bio-based with Greg Hecht Savelski 0 0 2 0 0 LCA Problems Development Savelski 0 0 3 0 1 Pharmaceutical and Healthcare Experiments Slater 0 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 3 Stem Cells Staehle 0 0 4 0 3 Stem Cells Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 0 4 0 7 Magnetic Biomaterials Vernengo 0 0 3 0 8 Colon Delivery Vernengo 0 0 1 3 0 2 Experiments & Demonstrations for STEM Outreach Jahan 1 0 1 2 4 Arsenic Removal using Carbon Nanotubes Jahan 1 0 1 2 5 Sustain City Jahan 0 0 2 2 0 2 7 Relaxation in Bolted		Savelski	0	0	3	0
0 LCA Problems Development Savelski 0 0 3 0 1 Pharmaceutical and Healthcare Experiments Slater 0 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 3 Stem Cells Staehle 0 0 3 0 4 Planaria and Alcohol Staehle 0 0 6 0 5 Helios Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 0 4 0 7 Magnetic Biomaterials Vernengo 1 1 3 0 8 Colon Delivery Vernengo 0 0 1 1 1 1 2 Experiments & Demonstrations for STEM Outreach Jahan 1 0 1 2 2 Experiments & Demonstrations for STEM Outreach Jahan 0 0 2 2 1 Algae Derived Biofuels:Enhancing Lipid Content Jahan 0 0 2 2 2 2		Savelski	0	0		0
1 Pharmaceutical and Healthcare Experiments Slater 0 0 3 0 2 Alcohol Kinetics Staehle 0 0 3 0 3 Stem Cells Staehle 0 0 3 0 4 Planaria and Alcohol Staehle 0 0 6 0 5 Heilos Dahm 2 1 4 1 6 Bioadhesive Vernengo 1 1 3 0 7 Magnetic Biomaterials Vernengo 0 0 3 0 8 Colon Delivery Vernengo 0 0 1 3 2 1 Algae Derived Biofuels:Enhancing Lipid Content Jahan 1 1 1 1 1 1 1 1 1 1 1 1 1 2 4 Arsenic Removal using Carbon Nanotubes Jahan 1 0 1 2 2 0 2 2 2 6 Fiber Mechanics Riddell 1 0 0						
2 Alcohol KineticsStaehle00403 Stem CellsStaehle00304 Planaria and AlcoholStaehle00605 HeliosDahm21416 BioadhesiveVernengo00407 Magnetic BiomaterialsVernengo11308 Colon DeliveryVernengo00130E ProjectProj. ManagerMEECEChECEE1 Algae Derived Biofuels:Enhancing Lipid ContentJahan11113 Engineers on WheelsJahan1012225 Sustain CityJahan101222236 Fiber MechanicsRiddell20222339 PSEG Stormwater DrainageDaraio2203311 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
3 Stem Cells Staehle 0 0 3 0 4 Planaria and Alcohol Staehle 0 0 6 0 5 Helios Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 0 4 0 7 Magnetic Biomaterials Vernengo 0 0 3 0 8 Colon Delivery Vernengo 0 0 3 0 E Project Proj. Manager ME ECE ChE CEE 1 Algae Derived Biofuels:Enhancing Lipid Content Jahan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 5 Stastain City Jahan 1 0 1 2 5 Stastain City Jahan 0 2 0 2 2 2 6 Fiber Mechanics Riddell 1 0 0 2 0 2 2 0 3 1 1 1 1						
4 Planaria and Alcohol Staehle 0 0 6 0 5 Helios Dahm 2 1 4 1 6 Bioadhesive Vernengo 0 0 4 0 7 Magnetic Biomaterials Vernengo 1 1 3 0 8 Colon Delivery Vernengo 0 0 3 0 E Project Proj. Manager ME ECE ChE CEE 1 Algae Derived Biofuels: Enhancing Lipid Content Jahan 1 1 1 1 2 Experiments & Demonstrations for STEM Outreach Jahan 1 0 1 2 4 Arsenic Removal using Carbon Nanotubes Jahan 1 0 1 2 5 Sustain City Jahan 0 2 0 2 6 Fiber Mechanics Riddell 1 0 0 2 7 Relaxation in Bolted Assemblies Riddell 1 0 0 2 8 Chestnut Branch Stream Gaging Daraio 2 0 0 2 9 PSEG Stormwater Drainage Daraio </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
5 HeliosDahm21416 BioadhesiveVernengo00407 Magnetic BiomaterialsVernengo11308 Colon DeliveryVernengo0030 E Project Proj. ManagerMEECEChECEE1 Algae Derived Biofuels: Enhancing Lipid ContentJahan00132 Experiments & Demonstrations for STEM OutreachJahan11113 Engineers on WheelsJahan10124 Arsenic Removal using Carbon NanotubesJahan02025 Sustain CityJahan02026 Fiber MechanicsRiddell10028 Chestnut Branch Stream GagingDaraio10039 PSEG Stormwater DrainageDaraio20200 Hydrologic ModelingDaraio20021 Energy Audits - NJ DMAVA 1Everett11112 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00025 Alternative to Nuclear Density TestingMehta0026 Faitgue life of HMA in airfield pavementsMehta0027 Slip Resistance of FlooringCleary0039 Flexible airport pavement subbase<						
6BioadhesiveVernengo00407Magnetic BiomaterialsVernengo11308Colon DeliveryVernengo000308ProjectProj. ManagerMEECEChECEE1Algae Derived Biofuels: Enhancing Lipid ContentJahan11112Experiments & Demonstrations for STEM OutreachJahan10123Engineers on WheelsJahan1012224Arsenic Removal using Carbon NanotubesJahan101222226Fiber MechanicsRiddell2002226Fiber MechanicsRiddell1002220339PSEG Stormwater DrainageDaraio2022033111 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
7 Magnetic BiomaterialsVernengo11308 Colon DeliveryVernengo0030E ProjectProj. ManagerMEECEChECEE1 Algae Derived Biofuels:Enhancing Lipid ContentJahan00132 Experiments & Demonstrations for STEM OutreachJahan11113 Engineers on WheelsJahan10124 Arsenic Removal using Carbon NanotubesJahan02025 Sustain CityJahan02026 Fiber MechanicsRiddell20227 Relaxation in Bolted AssembliesRiddell10039 PSEG Stormwater DrainageDaraio20200 Hydrologic ModelingDaraio20201 Energy Audits - NJ DMAVA 1Everett11112 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary0038 Concrete CanoeCleary0039 Flexible airport pavement subbaseSukumaran022000000000000						
8 Colon DeliveryVernengo0030E ProjectProj. ManagerMEECEChECEE1 Algae Derived Biofuels:Enhancing Lipid ContentJahan00132 Experiments & Demonstrations for STEM OutreachJahan11113 Engineers on WheelsJahan10124 Arsenic Removal using Carbon NanotubesJahan10125 Sustain CityJahan02026 Fiber MechanicsRiddell20027 Relaxation in Bolted AssembliesRiddell10028 Chestnut Branch Stream GagingDaraio20209 PSEG Stormwater DrainageDaraio20231 Energy Audits - NJ DMAVA 1Everett11112 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00026 Fatigue life of HMA in airfield pavementsMehta00227 Slip Resistance of FlooringCleary00338 Concrete CanoeCleary00339 Flexible airport pavement subbaseSukumaran0221 Engineering Innovators without Borders - developmen Sukumaran20200000000<		•				
E ProjectProj. ManagerMEECEChECEE1 Algae Derived Biofuels:Enhancing Lipid ContentJahan00132 Experiments & Demonstrations for STEM OutreachJahan11113 Engineers on WheelsJahan10124 Arsenic Removal using Carbon NanotubesJahan10125 Sustain CityJahan02026 Fiber MechanicsRiddell20027 Relaxation in Bolted AssembliesRiddell10039 PSEG Stormwater DrainageDaraio2020 Hydrologic ModelingDaraio2021 Aincraft Hanger ProjectDusseau0044 Interlocking of polymers with bindersMehta0025 Slip Resistance of FlooringCleary0038 Concrete CanoeCleary0039 Flexible airport pavement subbaseSukumaran0021 Engineering Innovators without Borders - developmen Sukumaran2021 Engineering Innovators without Borders - developmen Sukumaran202000000000000000000000						
1 Algae Derived Biofuels:Enhancing Lipid ContentJahan00132 Experiments & Demonstrations for STEM OutreachJahan111113 Engineers on WheelsJahan10124 Arsenic Removal using Carbon NanotubesJahan10125 Sustain CityJahan020226 Fiber MechanicsRiddell20027 Relaxation in Bolted AssembliesRiddell10039 PSEG Stormwater DrainageDaraio10039 PSEG Stormwater DrainageDaraio20201 Energy Audits - NJ DMAVA 1Everett11112 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00226 Fatigue life of HMA in airfield pavementsMehta00226 Fatigue life of HMA in airfield pavementsMehta00338 Concrete CanoeCleary0033333330 Laser Analysis of AggregatesSukumaran000000000000000000000000000001 Engineering Innovators		vernengo	0	0	3	0
2Experiments & Demonstrations for STEM OutreachJahan111113Engineers on WheelsJahan10124Arsenic Removal using Carbon NanotubesJahan02025Sustain CityJahan02026Fiber MechanicsRiddell10027Relaxation in Bolted AssembliesRiddell10039PSEG Stormwater DrainageDaraio10039PSEG Stormwater DrainageDaraio20020Hydrologic ModelingDaraio22031Energy Audits - NJ DMAVA 1Everett11112Engineers Without Borders - Valle VerdeEverett11112Engineers Without Borders - Valle VerdeDusseau0025Alternative to Nuclear Density TestingMehta0026Fatigue life of HMA in airfield pavementsMehta0027Slip Resistance of FlooringCleary0039Flexible airport pavement subbaseSukumaran020000000000000000000000000 </th <th>CEE Project</th> <th>Proj. Manager</th> <th>ME</th> <th>ECE</th> <th>ChE</th> <th>CEE</th>	CEE Project	Proj. Manager	ME	ECE	ChE	CEE
3 Engineers on WheelsJahan10124 Arsenic Removal using Carbon NanotubesJahan10125 Sustain CityJahan02026 Fiber MechanicsRiddell20027 Relaxation in Bolted AssembliesRiddell10038 Chestnut Branch Stream GagingDaraio10039 PSEG Stormwater DrainageDaraio20020 Hydrologic ModelingDaraio22031 Energy Audits - NJ DMAVA 1Everett11112 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00225 Alternative to Nuclear Density TestingMehta00227 Slip Resistance of FlooringCleary00339 Flexible airport pavement subbaseSukumaran00330 Laser Analysis of AggregatesSukumaran00221 Engineering Innovators without Borders - developmen Sukumaran200200000000000000000000000000000000000 <td< td=""><td>1 Algae Derived Biofuels:Enhancing Lipid Content</td><td>Jahan</td><td>0</td><td>0</td><td>1</td><td>3</td></td<>	1 Algae Derived Biofuels:Enhancing Lipid Content	Jahan	0	0	1	3
3 Engineers on WheelsJahan10124 Arsenic Removal using Carbon NanotubesJahan10125 Sustain CityJahan02026 Fiber MechanicsRiddell20027 Relaxation in Bolted AssembliesRiddell10038 Chestnut Branch Stream GagingDaraio10039 PSEG Stormwater DrainageDaraio20020 Hydrologic ModelingDaraio22031 Energy Audits - NJ DMAVA 1Everett11112 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00225 Alternative to Nuclear Density TestingMehta00227 Slip Resistance of FlooringCleary00339 Flexible airport pavement subbaseSukumaran00330 Laser Analysis of AggregatesSukumaran00221 Engineering Innovators without Borders - developmen Sukumaran200200000000000000000000000000000000000 <td< td=""><td>2 Experiments & Demonstrations for STEM Outreach</td><td>Jahan</td><td>1</td><td>1</td><td>1</td><td>1</td></td<>	2 Experiments & Demonstrations for STEM Outreach	Jahan	1	1	1	1
4 Arsenic Removal using Carbon NanotubesJahan10125 Sustain CityJahan02026 Fiber MechanicsRiddell20027 Relaxation in Bolted AssembliesRiddell10028 Chestnut Branch Stream GagingDaraio10039 PSEG Stormwater DrainageDaraio20020 Hydrologic ModelingDaraio22031 Energy Audits - NJ DMAVA 1Everett11112 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00225 Alternative to Nuclear Density TestingMehta0026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary0038 Concrete CanoeCleary0039 Laser Analysis of AggregatesSukumaran0221 Engineering Innovators without Borders - developmen Sukumaran2002000000000000000000000000		Jahan	1	0	1	2
5 Sustain CityJahan02026 Fiber MechanicsRiddell20027 Relaxation in Bolted AssembliesRiddell10028 Chestnut Branch Stream GagingDaraio10039 PSEG Stormwater DrainageDaraio20020 Hydrologic ModelingDaraio22031 Energy Audits - NJ DMAVA 1Everett11112 Engineers Without Borders - Valle VerdeEverett11112 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00024 Interlocking of polymers with bindersMehta00025 Alternative to Nuclear Density TestingMehta00026 Fatigue life of HMA in airfield pavementsMehta00038 Concrete CanoeCleary00339 Flexible airport pavement subbaseSukumaran00030 Laser Analysis of AggregatesSukumaran20020000000000000000000000000000000010 Engline eiting	4 Arsenic Removal using Carbon Nanotubes	Jahan	1	0	1	2
6 Fiber MechanicsRiddell20027 Relaxation in Bolted AssembliesRiddell10028 Chestnut Branch Stream GagingDaraio10039 PSEG Stormwater DrainageDaraio20020 Hydrologic ModelingDaraio22031 Energy Audits - NJ DMAVA 1Everett11112 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00044 Interlocking of polymers with bindersMehta00025 Alternative to Nuclear Density TestingMehta0026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary0038 Concrete CanoeCleary00339 Flexible airport pavement subbaseSukumaran02221 Engineering Innovators without Borders - developmen Sukumaran20220000000000000000			0		0	
7 Relaxation in Bolted AssembliesRiddell10028 Chestnut Branch Stream GagingDaraio10039 PSEG Stormwater DrainageDaraio20020 Hydrologic ModelingDaraio22031 Energy Audits - NJ DMAVA 1Everett11012 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00044 Interlocking of polymers with bindersMehta00025 Alternative to Nuclear Density TestingMehta00026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary0038 Concrete CanoeCleary0039 Flexible airport pavement subbaseSukumaran0021 Engineering Innovators without Borders - developmen Sukumaran202000000000000000						
8 Chestnut Branch Stream GagingDaraio10039 PSEG Stormwater DrainageDaraio20020 Hydrologic ModelingDaraio22031 Energy Audits - NJ DMAVA 1Everett11012 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00044 Interlocking of polymers with bindersMehta00025 Alternative to Nuclear Density TestingMehta00026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary0038 Concrete CanoeCleary0039 Flexible airport pavement subbaseSukumaran02221 Engineering Innovators without Borders - developmen Sukumaran202200000000000000000	6 Fiber Mechanics	Riddell	2	0	0	2
9 PSEG Stormwater DrainageDaraio20020 Hydrologic ModelingDaraio22031 Energy Audits - NJ DMAVA 1Everett11012 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00044 Interlocking of polymers with bindersMehta00025 Alternative to Nuclear Density TestingMehta00026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary0038 Concrete CanoeCleary0039 Flexible airport pavement subbaseSukumaran0021 Engineering Innovators without Borders - developmen Sukumaran20200000000000000000000000	6 Fiber Mechanics 7 Relaxation in Bolted Assemblies					
0Hydrologic ModelingDaraio22031Energy Audits - NJ DMAVA 1Everett11012Engineers Without Borders - Valle VerdeEverett11113Aircraft Hanger ProjectDusseau00044Interlocking of polymers with bindersMehta00025Alternative to Nuclear Density TestingMehta00026Fatigue life of HMA in airfield pavementsMehta00027Slip Resistance of FlooringCleary0038Concrete CanoeCleary0039Flexible airport pavement subbaseSukumaran0221Engineering Innovators without Borders - developmen Sukumaran202000000000000000000000	7 Relaxation in Bolted Assemblies	Riddell	1	0	0	2
1Energy Audits - NJ DMAVA 1Everett11012Engineers Without Borders - Valle VerdeEverett111113Aircraft Hanger ProjectDusseau00044Interlocking of polymers with bindersMehta00025Alternative to Nuclear Density TestingMehta00026Fatigue life of HMA in airfield pavementsMehta00027Slip Resistance of FlooringCleary0038Concrete CanoeCleary0039Flexible airport pavement subbaseSukumaran0221Engineering Innovators without Borders - developmen Sukumaran202000000000000000000000	7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging	Riddell Daraio	1 1	0 0	0 0	2 3
2 Engineers Without Borders - Valle VerdeEverett11113 Aircraft Hanger ProjectDusseau00044 Interlocking of polymers with bindersMehta00025 Alternative to Nuclear Density TestingMehta00026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary00038 Concrete CanoeCleary0039 Flexible airport pavement subbaseSukumaran00030 Laser Analysis of AggregatesSukumaran20221 Engineering Innovators without Borders - developmen Sukumaran200000 000000000 000000000 00000000	7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage	Riddell Daraio Daraio	1 1 2	0 0 0	0 0 0	2 3 2
3 Aircraft Hanger ProjectDusseau00044 Interlocking of polymers with bindersMehta00025 Alternative to Nuclear Density TestingMehta00026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary00038 Concrete CanoeCleary00039 Flexible airport pavement subbaseSukumaran00030 Laser Analysis of AggregatesSukumaran02221 Engineering Innovators without Borders - developmen Sukumaran20000000000000000000000000000000	7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling	Riddell Daraio Daraio Daraio	1 1 2 2	0 0 0 2	0 0 0 0	2 3 2 3
4 Interlocking of polymers with bindersMehta00025 Alternative to Nuclear Density TestingMehta00026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary00038 Concrete CanoeCleary00039 Flexible airport pavement subbaseSukumaran00030 Laser Analysis of AggregatesSukumaran02021 Engineering Innovators without Borders - developmen Sukumaran20000000000000000000000000000	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 	Riddell Daraio Daraio Daraio Everett	1 1 2 2 1	0 0 0 2 1	0 0 0 0 0	2 3 2 3 1
5 Alternative to Nuclear Density TestingMehta00026 Fatigue life of HMA in airfield pavementsMehta00027 Slip Resistance of FlooringCleary0038 Concrete CanoeCleary0039 Flexible airport pavement subbaseSukumaran0000 Laser Analysis of AggregatesSukumaran0201 Engineering Innovators without Borders - developmen Sukumaran200000000000000000000000000	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 	Riddell Daraio Daraio Daraio Everett Everett	1 1 2 2 1 1	0 0 2 1 1	0 0 0 0 0	2 3 2 3 1 1
6 Fatigue life of HMA in airfield pavements Mehta 0 0 0 2 7 Slip Resistance of Flooring Cleary 0 0 3 8 Concrete Canoe Cleary 0 0 0 3 9 Flexible airport pavement subbase Sukumaran 0 0 0 3 0 Laser Analysis of Aggregates Sukumaran 0 2 0 2 1 Engineering Innovators without Borders - developmen Sukumaran 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 	Riddell Daraio Daraio Daraio Everett Everett Dusseau	1 2 2 1 1 0	0 0 2 1 1 0	0 0 0 0 1 0	2 3 2 3 1 4
7 Slip Resistance of Flooring Cleary 0 0 3 8 Concrete Canoe Cleary 0 0 3 9 Flexible airport pavement subbase Sukumaran 0 0 3 0 Laser Analysis of Aggregates Sukumaran 0 2 0 2 1 Engineering Innovators without Borders - developmen Sukumaran 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta	1 2 2 1 1 0 0	0 0 2 1 1 0 0	0 0 0 0 1 0	2 3 2 3 1 1 4 2
8 Concrete Canoe Cleary 0 0 0 3 9 Flexible airport pavement subbase Sukumaran 0 0 0 3 0 Laser Analysis of Aggregates Sukumaran 0 2 0 2 1 Engineering Innovators without Borders - developmen Sukumaran 2 0 0 2 0 0 0 0 0 0 0 0 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta	1 2 2 1 1 0 0	0 0 2 1 1 0 0 0	0 0 0 0 1 0 0 0	2 3 2 3 1 1 4 2 2
9 Flexible airport pavement subbase Sukumaran 0 0 0 3 0 Laser Analysis of Aggregates Sukumaran 0 2 0 2 1 Engineering Innovators without Borders - developmen Sukumaran 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta	1 2 2 1 1 0 0 0 0	0 0 2 1 1 0 0 0 0	0 0 0 0 1 0 0 0 0	2 3 2 3 1 4 2 2 2
0 Laser Analysis of Aggregates Sukumaran 0 2 0 2 1 Engineering Innovators without Borders - developmen Sukumaran 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""><td> 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring </td><td>Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary</td><td>1 2 2 1 1 0 0 0 0 0</td><td>0 0 2 1 1 0 0 0 0</td><td>0 0 0 0 1 0 0 0 0 0</td><td>2 3 2 3 1 4 2 2 2 3</td></t<>	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary	1 2 2 1 1 0 0 0 0 0	0 0 2 1 1 0 0 0 0	0 0 0 0 1 0 0 0 0 0	2 3 2 3 1 4 2 2 2 3
1 Engineering Innovators without Borders - developmen Sukumaran 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring 18 Concrete Canoe 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary Cleary	1 2 2 1 1 0 0 0 0 0 0 0	0 0 2 1 1 0 0 0 0 0 0	0 0 0 1 0 0 0 0 0 0 0	2 3 2 3 1 4 2 2 2 3 3
00 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring 18 Concrete Canoe 19 Flexible airport pavement subbase 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary Cleary Sukumaran	1 2 2 1 1 0 0 0 0 0 0 0 0 0 0	0 0 2 1 1 0 0 0 0 0 0 0	0 0 0 1 0 0 0 0 0 0 0 0 0	2 3 2 3 1 4 2 2 3 3 3 3
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring 18 Concrete Canoe 19 Flexible airport pavement subbase 20 Laser Analysis of Aggregates 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary Cleary Sukumaran Sukumaran	1 2 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 1 1 0 0 0 0 0 0 0 0 0 2	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	2 3 1 1 2 2 2 3 3 3 2
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring 18 Concrete Canoe 19 Flexible airport pavement subbase 20 Laser Analysis of Aggregates 21 Engineering Innovators without Borders - development 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary Cleary Sukumaran Sukumaran	1 2 2 1 1 0 0 0 0 0 0 0 0 0 0 2	0 0 2 1 1 0 0 0 0 0 0 0 0 0 2 0	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	2 3 1 1 4 2 2 3 3 2 2
0 0 0 0 0 0 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring 18 Concrete Canoe 19 Flexible airport pavement subbase 20 Laser Analysis of Aggregates 21 Engineering Innovators without Borders - developmen 0 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary Cleary Sukumaran Sukumaran 0	1 2 2 1 1 0 0 0 0 0 0 0 0 0 0 0 2 0	0 0 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	2 3 1 1 4 2 2 3 3 2 2 0
	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring 18 Concrete Canoe 19 Flexible airport pavement subbase 20 Laser Analysis of Aggregates 21 Engineering Innovators without Borders - developmen 0 0 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary Cleary Sukumaran Sukumaran 0	1 2 2 1 1 0 0 0 0 0 0 0 0 0 0 0 2 0	0 0 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 1 1 4 2 2 3 3 2 2 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring 18 Concrete Canoe 19 Flexible airport pavement subbase 20 Laser Analysis of Aggregates 21 Engineering Innovators without Borders - developmen 0 0 0 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary Cleary Sukumaran Sukumaran 0 0	1 2 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 1 1 4 2 2 3 3 2 2 0 0
	 7 Relaxation in Bolted Assemblies 8 Chestnut Branch Stream Gaging 9 PSEG Stormwater Drainage 10 Hydrologic Modeling 11 Energy Audits - NJ DMAVA 1 12 Engineers Without Borders - Valle Verde 13 Aircraft Hanger Project 14 Interlocking of polymers with binders 15 Alternative to Nuclear Density Testing 16 Fatigue life of HMA in airfield pavements 17 Slip Resistance of Flooring 18 Concrete Canoe 19 Flexible airport pavement subbase 20 Laser Analysis of Aggregates 21 Engineering Innovators without Borders - developmen 0 0 0 0 	Riddell Daraio Daraio Daraio Everett Everett Dusseau Mehta Mehta Mehta Cleary Cleary Sukumaran Sukumaran 0 0	1 2 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 1 1 4 2 2 3 3 2 2 0 0 0 0 0