

# **CELEBRATION OF SCHOLARSHIP & CREATIVE ACTIVITY**

## **30th Annual Event**

### **Program**

**April 27, 2023**

**8:15 a.m. – 5:00 p.m.**

**Reeve Memorial Union**

*OFFICE OF  
STUDENT  
RESEARCH  
&  
CREATIVE  
ACTIVITY*



## Schedule of Events

<b>7:30 – 8:15 a.m.</b> Registration and Exhibit Set Up	<b>Reeve Union</b> Ballroom 227
<b>8:15 a.m.</b> Welcome	Ballroom 227
<b>8:30 a.m. – 4:00 p.m.</b> Poster Exhibits	Ballroom 227
<b>8:30 a.m. – 4:00 p.m.</b> Visual Art Exhibits	Ballroom 227
<b>9:00 – 10:30 a.m.</b> Performance Presentations Session I	Ballroom 227
<b>8:30 – 10:00 a.m.</b> Oral Presentations Session I	Reeve 209, 210 & 306
<b>10:15 – 11:45 a.m.</b> Oral Presentations Session II	Reeve 209, 210, 220, 221 & 306
<b>1:00 – 2:30 p.m.</b> Oral Presentations Session III	Reeve 209, 221 & 306
<b>11:00 a.m. – 1:00 p.m.</b> Poster and Visual Art Presentations	Ballroom 227
<b>4:00 – 5:00 p.m.</b> Provost's Awards Reception	Ballroom 227

### **Provost's Awards Reception**

4:00 – 5:00 p.m.

Reeve Union Ballroom 227

Celebration of Scholarship and Creative Activity presenters, other student scholars, faculty mentors and guests are invited.

*Refreshments will be served.*

**Join us in recognizing the  
Celebration of Scholarship and Creative Activity award winners,  
as well as other student scholars and their faculty mentors.**

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## **Oral Presentation A (8:30 – 10:00 a.m.) Reeve Union, Room 209**

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Serpentine

**Joshua Sheldon** (Dr. John Mayrose, *Music*)

A Morphometric and Taxonomic Analysis of True Dolphins (Delphininae)

**Colin Baltz** (Dr. Morgan Churchill, *Biology*)

Mathematical Identities of Pre-Service Elementary Teachers

**Megan LaFond** (Dr. Jennifer Szydluk, *Mathematics*)

STEM Pushout: Race, Inequality, and Exclusion for Hmong American Students in Higher Education

**Cheemeng Xiong, Vincent Lee, Andy Yang, Vatz Yang** (Dr. Mai See Thao, *Hmong Studies*)

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## **Oral Presentation B (8:30 – 10:00 a.m.) Reeve Union, Room 306**

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Impact of Basic Life Support (BLS) and Automated External Defibrillator (AED) Training in  
Schools

**Rachael Meyer** (Dr. Heather England, *Nursing*)

Improving Health Behaviors in Children by Implementing the Evidence-Based Program “5-2-1-0  
Let’s Go” in an After-School Setting

**Lindsey M Czubakowski** (Dr. Deborah Gentile, *Nursing*)

Organizing a Hands-on Ultrasound Seminar for the Wisconsin Professional Nurse Anesthesia  
Community

**Alexis Holzem** (Dr. Kathleen Wren, *Nursing*)

Reducing Nursing Burn-Out Through Routine Screening: A Quality Improvement Project

**Taylor Korth** (Dr. Jacqueline Karlin, *Nursing*)

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## Oral Presentation C (8:30 – 10:00 a.m.) Reeve Union, Room 210

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Measuring the Efficacy of an Educational Module for Registered Nurses on Ultrasound Guidance for Insertion of Peripheral Intravenous Catheters

**Kimberly Huth** (Dr. Timothy Wren, *Nursing*)

Marketing Campaign for the UWO College of Nursing, BSN-DNP Nurse Anesthesia Emphasis Program: A Quality Improvement Project

**Andrew LeBlanc** (Dr. Christopher Giberson, *Nursing*)

The Positive Influence of a Structured Weight Management Program on Lifestyle Behaviors among Employees at a Large Midwest Company

**Nicole Meighen** (Dr. Terese Blakeslee, *Nursing*)

Improving Smoking Prevention Education: An Improvement Project in Hmong American Middle and High School Students

**Sherry Xiong** (Dr. Molly Schumacher, *Nursing*)

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## Oral Presentation D (10:15 – 11:45 a.m.) Reeve Union, Room 209

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Bill Past Due: What America Owes Black Folks

**Samuel M. Maceno** (Dr. Alphonso Simpson, *African American Studies*)

The Effect of Diurnal Changes on Memory for Environmental Sounds

**Natalie Freese, Raine Summers & Sarah Gillepsie** (Dr. Justyna Olszewska, *Psychology*)

The Masque of the Red Death: The Musical

**Mack Booth** (Dr. John Mayrose, *Music*)

Hungry, Thirsty and Unhealthy: How Food Deserts and Liquor Stores Dominate Black Neighborhoods

**Jayden Flowers** (Dr. Denae Powell, *Psychology*)

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**Oral Presentation E (10:15 – 11:45 a.m.) Reeve Union, Room 220**

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Characterizing Functional Diversity of Red-Pink Biofilm Bacteria from Fox River Substrates  
**Mariah Linse** (Dr. Sabrina Mueller-Spitz, *Biology*)

The Seasonal Occurrence of Pink Bacteria in Fox River Biofilms  
**Megan Scanlon & Mariah Linse** (Dr. Sabrina Mueller-Spitz, *Biology*)

Nutrient Abundance, Algae Growth, and Eutrophication of Small Water Systems in Northeastern Wisconsin  
**Dylan Stone** (Dr. Jessica Brandt, *Biology*)

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**Oral Presentation F (10:15 – 11:45 a.m.) Reeve Union, Room 221**

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The Way They See Us: The Historical Experiences of Black Women as Patients in Mainstream Health Care  
**Ene Priscilla Idoko** (Dr. Alphonso Simpson, *African American Studies*)

Black Male Youth and the Constant Impact of Oppression  
**Imagine Manders** (Dr. Denae Powell, *African American Studies*)

Bars & Bookings: The Criminalization of Black People in the United States  
**Makaylee Stewart** (Dr. Alphonso Simpson, *African American Studies*)

Game Over: The Apathy and Aftermath of Black Athleticism in the Collegiate and Professional Sports Arena  
**Keashun Lawrence** (Dr. Alphonso Simpson, *African American Studies*)

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**Oral Presentation G (10:15 – 11:45 a.m.) Reeve Union, Room 210**

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Improving Patient Satisfaction with Health Services Through Implementation of Standardized Admission Video, A Quality Improvement Project

**Monica Binder** (Dr. Kathleen Elertson, *Nursing*)

Just-In-Time-Training to Enhance the Response of Nurses to Clinical Deterioration

**Amanda R. Gatzke** (Dr. Kathleen Elertson, *Nursing*)

Jumping Through Hoops: Evaluation and Mapping of the Nursing Curriculum

**Jessica Grant & Kayla Baus** (Dr. Nahal Rahmanphana & Dr. Kathleen Elerston, *Nursing*)

Bridging the Gap: Advancing Operating Room Nurses' Understanding of Anesthesia Cues

Guiding Safe Patient Management Under General Anesthesia

**Mackenzie L. Greisch** (Dr. Kathleen Wren, *Nursing*)

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## **Oral Presentation H (10:15 – 11:45 a.m.) Reeve Union, Room 306**

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Improving Confidence of Medical-Surgical Nurses Caring for Aggressive or Violent Patients by  
Implementing Targeted Educational Programs

**Jackie Robinson** (Dr. Kathleen Elertson, *Nursing*)

Reducing Stress and Anxiety Amongst Students in the High School Population

**Austin Schaffer** (Dr. Kathleen Wren, *Nursing*)

Burnout Straits in Primary and Specialty Care: Strategic Use of Methods to Reduce the Burn

**Bonnie A. Soik** (Dr. Paula McNeil, *Nursing*)

Transcutaneous Electrical Nerve Stimulation (TENS) Devices: A Quality Improvement Project to  
Educate Nurses on the Use of TENS Devices for Post-surgical Patients

**Dylan Washkuhn**, (Dr. Kirsten Trundle, *Nursing*)

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## **Oral Presentation I (1:00 – 2:30 p.m.) Reeve Union, Room 209**

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Impact of Vaccine Equity Interventions on Diverse Communities and Recommendations for  
Practice: A Qualitative Study

**Pamela Lingle** (Dr. Michelle Lehr, *Nursing*)

Comparing Comfort Levels of Female and Transmasculine Students: Self-Collected Swab vs.  
Previous Provider-Collected Swab for STI Testing

**Jennie Harding** (Dr. Deborah Gentile, *Nursing*)

Implementing Video Technology as a Form of Learning for the Surgical Patient

**Angela-Filbrandt-Sheldon** (Dr. Mary Butler, *Nursing*)

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## **Oral Presentation J (1:00 – 2:30 p.m.) Reeve Union, Room 306**

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Guest Panel Discussion of Cultural Competency to Undergraduate Nursing Students

**Andrew Wolff** (Dr. Molly Schumacher, *Nursing*)

An Analysis of the Implementation of a Staff Script for Fall Risk Discussion and Educational Handout in a Rural Healthcare Setting

**Kaitlyn Belanger** (Dr. Morgan Bailey, *Nursing*)

Hypertension Management: Decreasing the Number of Patients Lost to Follow Up

**Naomi Burke** (Dr. Bonnie Nickash, *Nursing*)

Incorporating Psychiatric-Mental Health Education in the DNP-FNP Track

**Kimberly K. Walker-Daniels** (Dr. Paula McNiell, *Nursing*)

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## **Performance Presentations (9:00 – 10:30 a.m.) Reeve Union Ballroom**

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Collaboration through Beethoven's Spring-Sonata

**Rebecca Briesemeister & Marcus Wakefield** (Dr. Eli Kalman, *Music*)

Clairières dans le ciel- by Lily Boulanger

**Paige Wilson** (Dr. Kaara McHugh, *Music*)

The Research, Study, and Performance of Barnets-Vaardag Op. 42 by Agathe Backer-Grøndahl

**Emily McGoan** (Dr. Anna Hersey, *Music*)

Arranging Music for Voice and Harp

**Elsa Zank** (Dr. John Mayrose, *Music*)

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**Visual Art Presentations (11:00 a.m. – 1:00 p.m.) Reeve Union Ballroom**

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Ceramic Slip Casting

**Kely Carrasquillo** (Dr. Craig Clifford, *Art*)

Explorations in Fiber Through Weaving

**Sarah Vandersee** (Dr. Andrew Redington, *Art*)

Bringing Nature into the Home with Ceramics

**Macy Woxland** (Dr. Craig Clifford, *Art*)

**Poster Presentations (11:00 a.m. – 1:00 p.m.)  
Reeve Union Ballroom**

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| Assessment of Employee Assistance Program Utilization and<br>Mental Health Education: A Quality Improvement Project<br><b>Brenna Frank</b> (Dr. Mary Butler, <i>Nursing</i> )  | <b>P1</b>  |
| Fall Reduction in Long-Term Hospital Setting<br><b>Melissa Sawyer</b> (Dr. Shelley Strojny, <i>Nursing</i> )   | <b>P2</b>  |
| Benefits of a Positive Mindset on the Mental Health and<br>Wellbeing of Student Nurse Anesthetists<br><b>Taylor Tollefson</b> (Dr. Timothy Wren, <i>Nursing</i> )  | <b>P3</b>  |
| Effects of Mental Health Education on Mood and Self-Care<br>Behaviors in Adolescents: A Quality Improvement Project<br><b>Hillary Busch</b> (Dr. Michelle Lehr, <i>Nursing</i> )                                     | <b>P4</b>  |
| Get the most out of healthcare: A Quality Improvement Initiative to<br>Improve Health Literacy Among High School Seniors<br><b>Crystal Bushman</b> (Dr. Paula McNeil, <i>Nursing</i> )                               | <b>P5</b>  |
| Increasing Cervical Cancer Screening Compliance through<br>GATHER Counseling and Compliance Reminders at the<br>Oscar G. Johnson VA Medical Center<br><b>Cassie Gollakner</b> (Dr. Deborah Walrath, <i>Nursing</i> ) | <b>P6</b>  |
| Cost Analysis Proposition for the Creation of a Cadaver Lab for<br>Nursing Students in the Graduate Program at the University of<br>Wisconsin Oshkosh<br><b>Solange Fonkem</b> (Dr. Kathleen Wren, <i>Nursing</i> )  | <b>P7</b>  |
| Utilization of Depression and Anxiety Screening Tools in<br>Behavioral Health Virtual Visits Post Covid-19: A Quality<br>Improvement Project<br><b>Erica Dessart</b> (Dr. Kathleen Elertson, <i>Nursing</i> )        | <b>P8</b>  |
| Enhancing Fall Mitigation: Preventing Falls & Reducing Staff<br>Stressors<br><b>Melanie Gallman</b> (Dr. Shelley Strojny, <i>Nursing</i> )   | <b>P9</b>  |
| Standardizing the Process for Educating New Infusion Services<br>Patients<br><b>Jennifer Grasse</b> (Dr. Theresa Pichelmeyer, <i>Nursing</i> )   | <b>P10</b> |

## Poster Presentations - continued

- Depression Screening Implementation for Post-Acute Myocardial Infarction Patients **P11**  
**Jessica L. Green** (Dr. Deborah Gentile, *Nursing*)
- Improved Communication Through Interdisciplinary Rounding **P12**  
**Kaitlyn Hand** (Dr. Jill Collier, *Nursing*)
- Implementation of Standardized Family Care Conferences in the Pediatric ICU with Use of a Trigger-Based Criteria and Framework for Discussion **P13**  
**Erin Heredia** (Dr. Donna Hawley, *Nursing*)
- Preventing Re-Hospitalizations Amongst the SSI Medicaid Population **P14**  
**Colette Kuehl** (Dr. Jason Mott, *Nursing*)
- Reducing Cesarean Surgical Site Infections with Surgical Bundle Implementation **P15**  
**Megan Messerschmidt** (Dr. Paula McNiel, *Nursing*)
- Cost Analysis Following the Implementation of a Nursing-led Ultrasound-guided Peripherally Inserted Intravenous Catheter Program **P16**  
**Kelsey Overlien** (Dr. Kathleen Elertson, *Nursing*)
- College of Nursing Graduate Admission Process **P17**  
**Briana Peterson** (Dr. Nahal Rahmanpanah, *Nursing*)
- Culturally Sensitive Diabetes Education for Hmong Adults: A Quality Improvement Project **P18**  
**Hailee Richter** (Dr. Catherine Schmitt, *Nursing*)
- Simulation Effectiveness Among Nurse Anesthesia Students in Relation to Maintaining a Clean Anesthesia Workstation **P19**  
**Kristen Schaefer** (Dr. Kathryn Denney, *Nursing*)
- An Educational Module to Increase Perioperative Staff's Knowledge about Basic Anesthesia Equipment to Improve Emergency Preparedness **P20**  
**Libby Schmidt** (Dr. Kathleen Wren, *Nursing*)

## Poster Presentations - continued

- Volume-based Enteral Feeding in Mechanical Circulatory Support Patients **P21**  
**Laura Turley** (Dr. Bonnie Nickasch, *Nursing*)
- Implementation of a Violence Risk Assessment Tool on the Medical Specialty Unit **P22**  
**Tracy Weber** (Dr. Jill Collier, *Nursing*)
- Analysis of Pathologies in the Horned Dinosaurs (Ceratopsidae) **P23**  
**Brian Conway** (Dr. Joseph Peterson, *Geology*)
- Effectiveness of Hydrotherapy on Proprioception in ACL Reconstruction Patients: A Critically Appraised Topic **P24**  
**Lizet Moreno** (Dr. Kevin Biese, *Kinesiology*)
- Is it Racist? Black and White Americans' Affective Experiences and Perceptions of Discrimination in Seemingly Mundane Social Contexts **P25**  
**Kenya Mulwa** (Dr. David Lishner, *Psychology*)
- Reexamining the Attitude-Behavior Relation **P26**  
**Kenya Mulwa** (Dr. David Lishner, *Psychology*)
- Boundary Extension in Facial Recognition **P27**  
**Taylor Hendry** (Dr. Justyna Olszewska, *Psychology*)
- Study Habit Usage and Book Format Preference of College Students **P28**  
**Casie Rae** (Dr. Renae Swanson, *Professional Counseling* & Dr. Elizabeth Alderton, *Leadership, Literacy and Social Foundations*)
- Microplastics in Stormwater on the UW Oshkosh Campus **P29**  
**Jackie Behrens** (Dr. Greg Kleinheinz, *Engineering Technology*)
- Alli the Gator **P30**  
**Kailee Choinski** (Dr. Yoko Mogi-Hein, *Teaching & Learning*)
- Implementing an Ultrasonic Sensor for IoT Applications **P31**  
**Paul Price** (Dr. Ahmed Nasif, *Engineering Technology*)

## Poster Presentations - continued

- The Scarab Pheromone  $\gamma$ -decalactone Mediates Numerous Interactions in Midwestern Deciduous Forests **P32**  
**Geryd L. Steffek** (Dr. Robert Mitchell, *Biology*)
- Directed Dispersal of Walnut Seeds **P33**  
**Brandon Biedscheid** (Dr. Greg Adler, *Biology*)
- Beyond the Injury: The Association Between Physical Characteristics and Injury in Competitive High School Dance Team Athletes **P34**  
**Lauren Blume** (Dr. Brian Wallace, *Kinesiology*)
- Comparison of Area and Width Measurements Zea Mays Stomatal Apertures **P35**  
**Brittany Dupree** (Dr. Jessica Lucas, *Biology*)
- Chronic Effect of Postactivation Potentiation in High School Baseball Players **P36**  
**Jack Feye** (Dr. Brian Wallace, *Kinesiology*)
- Reconsidering Wisconsin's Northern Kettle Moraine: How One Millimeter May Change Our Glacial History **P37**  
**Eric P. Giese** (Dr. Colin Long, *Geography & Urban Planning*)
- Manganese Homeostasis in Bacteria: Identification of the Protein Bonding between the Small Protein MntS and Manganese Exporter MntP in *E. coli* **P38**  
**Lindsay Goeden & Maggie Gosz** (Dr. Lauren Waters, *Chemistry*)
- Assessing Rodgers' Visual Method of Determining the Sex of Skeletal Remains Using the Distal Humerus **P39**  
**Bryce Hansen** (Dr. Jordan Karsten, *Anthropology*)
- Glacial Transport Pathways in Northeast Wisconsin **P40**  
**Jeffery R. Krause, Jr. & Jacob McCloskey** (Dr. Eric Hiatt, *Geology*)
- Crime After COVID-19: An Examination of Index Crimes in Winnebago County **P41**  
**Meagan Leach** (Dr. Matthew Richie, *Criminal Justice*)
- Positive Reward Conditioning 13-Lined Ground Squirrels **P42**  
**Madysen Majewski** (Dr. Dana Merriman, *Biology*)

## Poster Presentations - continued

- Vertebrate Ichnofossils from Jurassic National Monument,  
Upper Morrison Formation, Utah - A Preliminary Census **P43**  
**Jacob McCloskey** (Dr. Joseph Peterson, *Geology*)
- Rock Analysis in Transantarctic Mountains **P44**  
**Erika Mullen** (Dr. Timothy Paulsen, *Geology*)
- Evidence of Glacial Dynamics During the Earth's Last Extreme  
Snowball Earth Ice Age: Jacadigo Basin, Brazil **P45**  
**Brianna Storino** (Dr. Eric Hiatt, *Geology*)
- Prenatal Development of the 13-Lined Ground Squirrel (13LGS) **P46**  
**Sheiana Taylor** (Dr. Dana Merriman, *Biology*)
- Bee Hotels: A Way to Help our Local Pollinators **P47**  
**Jacob H. Udell** (Dr. Shannon Davis-Foust, *Biology*)
- Fun with Frogs! **P48**  
**Molly Walter** (Dr. Yoko Mogi-Hein, *Teaching & Learning*)
- The Impact of Winter Climate Change on Plant Germination:  
a Comparison of Native and Non-Native Prairie Species **P49**  
**Sarah Wood & Sawyer Wittman** (Dr. Laura Ladwig, *Biology*)
- How Old Are You? New data on the Ages of Ancient Rocks  
Recovered From Antarctica **P50**  
**Maddie Young** (Dr. Timothy Paulsen, *Geology*)
- Validation Study of the Auricular Surface of the Ilium **P51**  
**Vanessa Kaus** (Dr. Jordan Karsten, *Anthropology*)
- All About Elephants **P52**  
**Emma Fafnis** (Dr. Yoko Mogi-Hein, *Teaching & Learning*)
- Teaching the Five Senses **P53**  
**Finnley Jessogne** (Dr. Yoko Mogi-Hein, *Teaching & Learning*)
- Pollution – A Preschool Lesson Plan **P54**  
**Lauren Makiya** (Dr. Yoko Mogi-Hein, *Teaching & Learning*)

## Poster Presentations - continued

- Waddle the Penguin  
**Anna Schneeberger** (Dr. Yoko Mogi-Hein, *Teaching & Learning*) **P55**
- Understanding the Differential Impact of Anger Inducing  
Experiences in the Activation of Aggressive Concepts **P56**  
**Jenna Catania, Addie Briggs, Gillian Bellman, Maria Endres,  
Samara Markle, Valeria Alcalde & Zachary Holzmann**  
(Dr. Christopher Groves, *Psychology*)
- Impacts of Class Consciousness on Political Attitudes in the  
United States **P57**  
**Dan Cummings** (Dr. Jeremiah Bohr, *Sociology*)
- A Computational Text Analysis of Congress's Immigration  
Discourse on Twitter **P58**  
**Yanet Fernandez** (Dr. Jeremiah Bohr, *Sociology*)
- Efficacy of HRD Dogs in Searches for Human Skeletal Remains **P59**  
**Kylie Mallmann, Amber Galewski & Sophia Salm**  
(Dr. Jordan Karsten, *Anthropology*)
- Jogging with Jaguars **P60**  
**Stephanie Gulbrandsen** (Dr. Yoko Mogi-Hein, *Teaching &  
Learning*)
- Wisconsin vs. Oregon: Community Justice-Oriented Reform  
and its Effect on Recidivism **P61**  
**Anise Madeline Shipley** (Dr. Juyeon Son, *Sociology*)
- The Grass is Always Greener: Agriculture and American  
Nineteenth-Century German Immigration Pamphlets **P62**  
**Catie Gullickson** (Dr. Michelle Kuhl, *History*)
- Edward Tulane Orchestral Suite **P63**  
**Joe Sandy** (Dr. Edward Martin, *Music*)