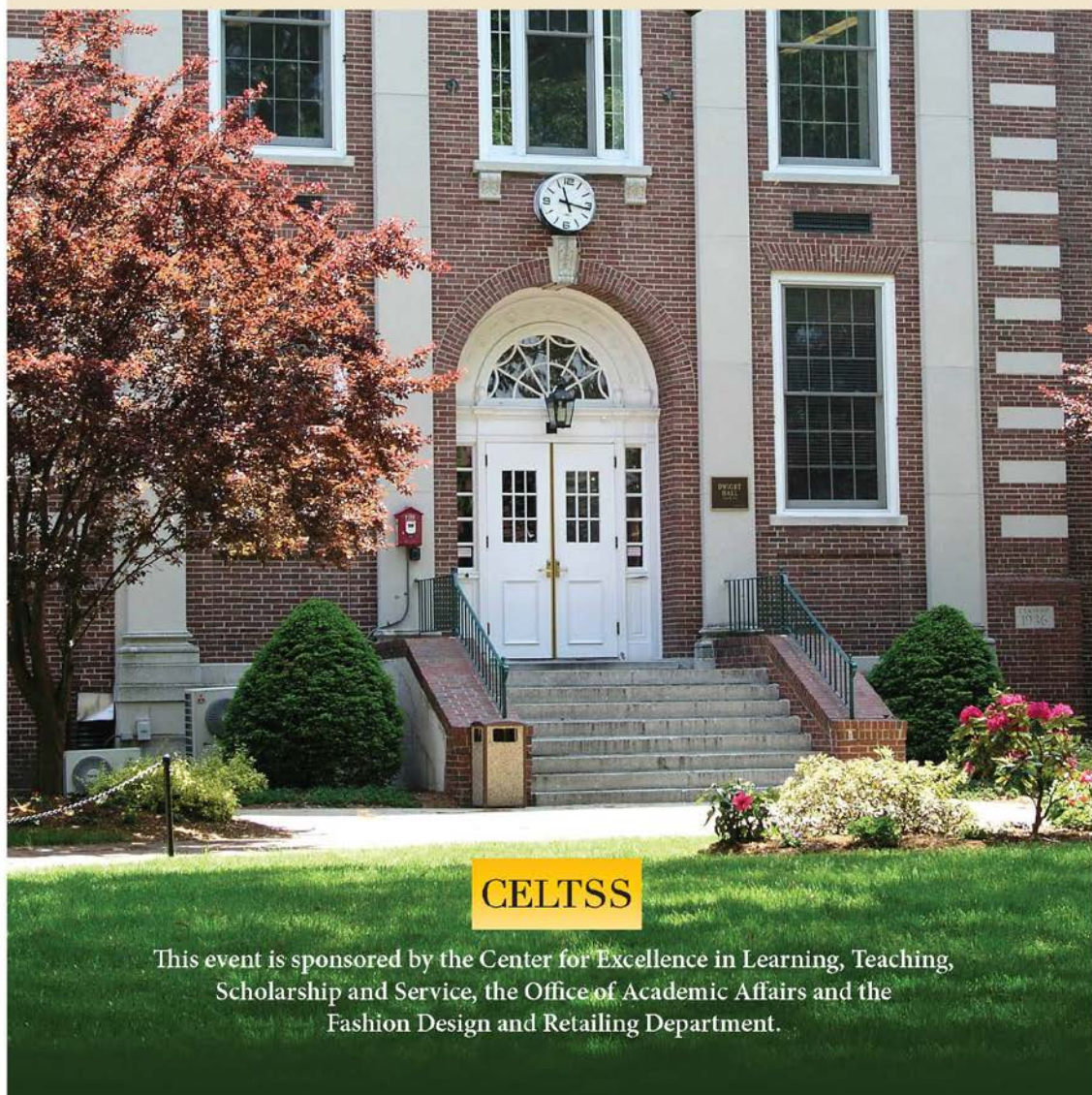




Friday, May 1, 2015
11:30 A.M. to 7 P.M.

4TH ANNUAL
**STUDENT POSTER &
PRESENTATION DAY**



CELTSS

This event is sponsored by the Center for Excellence in Learning, Teaching,
Scholarship and Service, the Office of Academic Affairs and the
Fashion Design and Retailing Department.

Welcome to Framingham State University's Fourth Annual Student Poster and Presentation Day!



Today marks our fourth great celebration of student scholarly work and faculty support. As students, you have taken special initiative to understand something deeply, and you have worked by the side of your faculty who have spent their time sharing with you their academic fields and expertise. They have done so because they care about you and your success, and they are optimistic about the future they see in you. Today, the steps you have taken to understand your chosen field and how it makes progress will open many doors for you as you move into your professions and careers. Your work and future work, also, will improve life for

others in multiple ways—improving healthcare; enlivening the arts; creating new strategies for people to understand their own behavior and that of others; enabling businesses to thrive; teaching people of all ages; caring for the planet; and making discoveries in the sciences that matter. Keep learning. Keep working. Thank your professors, and continue to expect a lot of yourselves. This is a significant moment. **We are proud of you. Congratulations!**

To Professor Karen Druffel, Professor Virginia Noon, Dr. Ruth Remington, Robin Robinson and our faculty who serve the university through the Center for Excellence in Learning, Teaching, Scholarship and Service, thank you for your hard work and success in making this event happen. Great work! And to our faculty who have mentored these students who are here today, what a community you have created! Clearly something to celebrate. Thank you.

Linda Vaden-Goad, Ph.D.

Provost and Vice President for Academic Affairs

Framingham State University Student Poster and Presentation Day

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Fashion Design and Retailing Portfolio Day

Friday May 1, 2015

11:15 – 1:15pm

McCarthy College Center Forum

Design Students presenting final senior design portfolio.

FASH 487 Apparel Design Portfolio (Capstone course)

A capstone experience to organize and present design work created in the Fashion Design and Retailing program and to produce a portfolio required to obtain a professional position in the apparel industry. Students develop a portfolio to demonstrate knowledge and skills in: a variety of garment categories; hand and computer illustration; flat sketching techniques; and original full scale garments. Ideas are assembled in an aesthetic and professional format by integrating the components of design, fabric, and end use. A portfolio presentation is required.

Student Design Portfolio Presentations <i>Sponsor: Brianna Plummer</i>		
	Designer's Name	Designer's Statement
1	Maggie Carman	My aesthetic is daring, edgy, and glamour and appeals to the woman who has and wants everything and lives to be in the public eye. Inspiration can be found everywhere and in everything, you just have to pay attention.
2	Acadia Emidy	My objective as a designer is to create unique designs that fit beautifully into everyday life. My designs play with hard and soft elements using lines, structure and fabrics. I create feminine clothing that celebrates a woman's body by being flattering, comfortable, wearable, and expressive.
3	Jessica Gee	As an avid innovator, inspired by the structural beauty and strength of architectural design, I combine sharp lines and ergonomic zones to create functional components for people to live an active and trendy lifestyle.

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	Designer's Name	Designer's Statement
4	Nathalia JMag	I'm a fashion and costume designer who draws inspiration from music, nature, people and everyday life. I like to blend street wear with high fashion bringing you innovative looks that you can wear in your everyday life.
5	MaryKate MacDonald	Ever since I was younger I always said I never wanted to hate my job. Designing custom clothing for men and women is my job and an amazing one. I love seeing my customers happy in my clothing, It becomes so rewarding and inspiring which pushes me to continue my designer dream.
6	Rachel Elizabeth Maginnis	I am inspired by history, art, sculpture, and literature. My designs are very textural- I enjoy manipulating fabric, using it as a medium for sculpture. To me, the process is the most important and rewarding part of design- I am interested in being very hands on with my work. My work tends to have a vintage feeling to it, not necessarily characterized by a particular time or decade, but just an essence of the past. I see fashion as an art form... a way of telling a story.
7	Cornelius Ortiz	Breaching norms is just one aspect of design. Segmented fabrication fusions push the boundaries of creativity, cohesiveness, and drama. Therefore, the level of women's-ready- to-wear clothing will change throughout existence.
8	Kayla Person	My design style is eclectic, colorful, bold, relaxed, and rhythmic. I design by mixing and matching design styles, colors, prints, themes, and moods. My consistent research and experimentation with shapes and styles are what make me unique as a designer.
9	Jessica Christina Phaneuf	I tend to design clothing with natural style lines and silhouettes. I like to make my clothing stand out, but in a subtle way, something that might make one say, 'Yes, that's a Jessica Christina piece.'

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	Designer's Name	Designer's Statement
10	Charles Rinaldo	I am a costume designer that not only creates costumes. I create a character and a story to make more of a dramatic effect. The costume is more of the storyteller than I am.
11	Emily Rzasa	Many elements come into play when I design clothing. My surroundings, such as nature, weather, music, etc., previous classic designs, and the need for simplistic, lasting fashions for the timeless woman and man fuel my love for designing. My attention to detail and aspects of tailored clothing spice up and bring diversity to seemingly simple garments. My garments are designed to have the grace that will last for generations to come.
12	Michelle Villada	The only difference between what the professional wears and what the cosplayer wears is the character they are trying to portray. All dress is costume.
13	Emily Vroom	I test my boundaries. I am the perfect balance of female designer meets men's fashion. Focusing on eccentric wear for both sexes with no regard for insider's opinion. "Why blend in when you were born to stand out?"
14	Roseanna M. Ward	Through intricate functions and structural inspiration, purposeful designing creates more than a fashion fabrication. To design with intention is to generate a garment grander than itself. I design for a consumer conscious of the functional elements of their "athleisure" wear or multi-purpose garments. As a designer I look to develop my designs in an artistic narrative.
15	Colleen Wilmot	I design for the rebellious twenty-something punk woman that still feels young at heart. My designs include a split between the grittiness of punk culture and the beauty and femininity of a ballerina. I believe that fashion, just like punk, is all about attitude.

Merchandising Students presenting business, buying, and promotional plans

FASH 464 Fashion Merchandising: Planning, Policies, and Implementation (Capstone course)

An analysis of industry standards in a business plan for a model retail business. Concepts included are financial planning, store location, organizational structure, merchandise assortment, and financial structure of the apparel and home furnishings industries. The role of the buyers and managers in policy making is analyzed. Open-to-buy and pricing are calculated and evaluated. Procedures and techniques practiced in assortment, movement of goods, customer service, security, and store policies are reviewed.

Student Business Plan Analyses by Groups <i>Sponsor: Virginia Noon</i>		
#	Group Members	Store Name and Description
1	Lauren Fry Victoria Munger Stephanie Osborn Lynn Osei	Lotus Lotus is an eco-friendly women's specialty store that promotes a healthy lifestyle and offers customers a unique selection of active and yoga wear (athleisure) for women of all shapes and sizes. Lotus will help inspire women to be fit and to take charge of their lives as well as work together to keep the planet a healthy and thriving place to live.
2	Jessica Bond Laura Dellorco Nichole Fantasia Emily Spadafora	The Dapper Gentleman The Dapper Gentleman is a men's specialty retail store located in the Downtown Crossing area of Boston, Massachusetts. The Dapper Gentleman will have a strict dedication to the ever so stylish businessman and will offer a variety of clothing, ranging from basic tees and jeans all the way to ties and suiting.
3	Olivia Gilmore Ashley Saravo Michelle Tocci	Time Travel Vintage Time Travel Vintage (TTV) is a mobile vintage and reproduction women's clothing boutique. The mobile boutique will travel to different locations via vintage Airstream trailer. This business is unlike others because

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		TTV is mobile and is not a stationary store.
#	Group Members	Store Name and Description
4	Camile Dullius Lindsey Harris Chelsea Moore Shannon Morris	Moi et Vous Moi et Vous is a specialty store that provides high-end clothing for women and children, and offers exclusive services to customers which include certified child care and personal stylists. Moi et Vous will provide a unique shopping experience to the on-the-go urban mother and her children in an easy, nurturing environment.
5	Camilla Jackson Ashley Keazer Megan McCarthy Emily Whittier	Intima Intima is an intimate lifestyle lingerie brand for women who seek to be sexy and confident. Intima's mission is to provide excellent and personalized service to each customer that walks into the store. Part of this unique experience will be exclusive lingerie styles made from fine fabrics so women can fulfill their personal and sexual fantasies with confidence.
6	Priscilla Hathon Francine Kirouac Jessica Rubenstein Elizabeth Welch	Tots On Trend Tots On Trend is a specialty store that provides high quality, and on- trend clothing for toddler boys and girls and offers a selection of organic onesies for infants. Tots On Trend strives to give back to the community and environment with every purchase made. The company will grow through consistently following on trend styles, and gaining loyal customers, and constantly adapting to the needs of the consumer.
7	Alyssa Anastos Jahlicia Blake Abigail Coppinger Michelle Westgate	Adorned Adorned is a beauty and accessories specialty store that provides fashion accessories and specific hair services located in Boston, Massachusetts. The company's goal is to provide women with the latest on trend fashion accessories to glamorize their everyday look or special occasion.

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#	Group Members	Store Name and Description
8	Paige Lemelin Aria Parker Kayla Perry Gabrielle Sartell	The Bundle Boutique The Bundle Boutique is an on trend maternity wear store that carries comfortable yet stylish clothing for women. The company also offers an On the Go service that provides a personal stylist for the clients in the comfort of their home.
9	Brittany Casey Danielle Girard Alexandria Gonzales Adrianna Hubert	By The Moon By The Moon is a specialty high-end swimwear and beach accessories boutique. It offers brand name swimwear in a variety of sizes so that women have the opportunity to look and feel comfortable near the water or in the sun. By The Moon's goal to make swimwear and the experience of shopping for swimwear more enjoyable, also helps support the idea that swimwear does not have to be just a seasonal look.

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Oral Presentations Alumni Room 1:30-2:15 pm		
Presenter Name	Title	Abstract Number
Chemistry and Food Science		
Kevin Fortier <i>Sponsor: Manos Apostolidis</i>	In vitro evaluation of Ayurvedic herbs (Centella asiatica, Bacopa monnieri, Polygonum multiflorum) for potential carbohydrate hydrolyzing enzyme inhibition	8
Megan Lucier <i>Sponsor: Vinay Mannam</i>	A Novel Method to Visualize Food Wastage in the United States	9
English		
Colleen Sullivan <i>Sponsor: Claudia Springer</i>	Wishing for America: The Capraesque Fairytale as a Populist Promise	13

Undergraduate Poster Presentations Forum

Poster Session 1: 2:30 p.m. - 3:15 p.m.			
Poster Number	Authors	Title	Abstract Number
Fashion Design and Retailing			
1	Elizabeth Johnson, Aria Parker, and Adrianna Hubert <i>Sponsor: Rui-Rui Zhang</i>	Market Research Project	14
2	Gabrielle Sartell, Geraldine Cortez, Elizabeth Welch, and Jessica Rubenstein <i>Sponsor: Rui-Rui Zhang</i>	Consumer Shopping Behavior at Express	15
3	Lauren Pontes, Kiana Brown, Michelle Tocci, and Kayla Benitez <i>Sponsor: Rui-Rui Zhang</i>	The Study of Consumer Behavior	16
4	Brittany Casey, Danielle Girard, Genevieve Brown and Francine Kirouac <i>Sponsor: Rui-Rui Zhang</i>	Market Research for Free People	17
5	Lynn Osei, Jahlicia Blake, and Ashley Keazer <i>Sponsor: Rui-Rui Zhang</i>	The Shopping Patterns of Customers in Nordstrom Men's Sportswear Department	18
6	Rachel Flaherty <i>Sponsor: Seunghye Cho</i>	Fashion for Future Mothers	19
7	Roseanna Ward <i>Sponsor: Seunghye Cho</i>	European Style of Design	20
8	Rachel Wheeler <i>Sponsor: Hae Won Ju</i>	Effects of Model's Appearance on Self-Esteem, Impression Formation, and Purchase Intention	21
9	Jordan Rowe <i>Sponsor: Hae Won Ju</i>	Divine	22

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Poster Session 1: 2:30 p.m. - 3:15 p.m.			
Poster Number	Authors	Title	Abstract Number
Fashion Design and Retailing			
10	Katherine Callahan <i>Sponsor: Hae Won Ju</i>	Simply Chic	23
11	Jocelyn Dion <i>Sponsor: Hae Won Ju</i>	Mock Shop Store	24
12	Kristen Torres <i>Sponsor: Hae Won Ju</i>	Mockshop - Gatsby	25
13	Justine Dorsi <i>Sponsor: Hae Won Ju</i>	La Mode	26
14	Olivia Spadafore <i>Sponsor: Hae Won Ju</i>	Mockshop Designs: Kiwi	27
Nursing			
15	Christopher Richard and Susan Cugini <i>Sponsor: Ruth Remington</i>	Intentional Rounding: Great Nursing Made Easy	42
16	Yelena Yezerskaya <i>Sponsor: Ruth Remington</i>	Bar Coded Medication Administration	43
17	Eileen Paulsen, Michele LaCroix, and Daniella Louis <i>Sponsor: Ruth Remington</i>	Maggot Therapy	44
18	Elizabeth Bao, Evelyn Leon, and Simon Torres <i>Sponsor: Ruth Remington</i>	Is Music Advantageous in the Operating Room?	45
19	Naomi Kiarie, Afua Aboagyewa-Bethea, and Dominique Dufresne <i>Sponsor: Ruth Remington</i>	Parents, Premature Babies, and Kangaroo Care	46

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Poster Session 1: 2:30 p.m. - 3:15 p.m.			
Poster Number	Authors	Title	Abstract Number
Nursing			
20	Nicole Mains and Theresa Watson <i>Sponsor: Ruth Remington</i>	Bedside Shift Report	47
21	Virginia Coen, Catherine Hurwitz, and Diane Leary <i>Sponsor: Ruth Remington</i>	Physiological Effects of Canine-Assisted Therapy on Cardiac Patients	48
Psychology			
22	Jelissa Guy <i>Sponsor: Dawn Vreven</i>	The Effect of College Aged Males' Marijuana Use on College Students' Perspectives	49
23	Tiffany Courtney <i>Sponsor: Dawn Vreven</i>	College Students Perspectives on Adopted Foster Childs Contact with Biological Mother	50
24	Stephanie Billingsley <i>Sponsor: Pam Ludemann</i>	Personality and Gender Differences and their Influence on Social Media Usage and Perceived Friendship Damage	51
Business and Computer Science			
25	Ann Sullivan, Derek Carty, Kevin Fitzgerald and Josh Mills <i>Sponsor: Karen Druffel</i>	Cyberwarfare	1
26	Thomas Greenhalgh, Ahmer Javed, and Matt Newville <i>Sponsor: Karen Druffel</i>	How Well do Cloud Providers Educate Users on Security?	2
27	Kevin Todd, Tom Keefe, and Jeff Durkee <i>Sponsor: Karen Druffel</i>	Cyberbullying	3
28	Jared Richard and Steve Kokidko <i>Sponsor: Karen Druffel</i>	Bluetooth Security	4

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Poster Session 1: 2:30 p.m. - 3:15 p.m.			
Poster Number	Authors	Title	Abstract Number
Business and Computer Science			
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Computer Science			
30	Brian Henriksen <i>Sponsor: Andrew Jung</i>	Minimum Number of Relay Nodes to Support 2-Edge Connected Wireless Sensor Networks	12

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Poster Session 2: 3:30 p.m. – 4:15 p.m.			
Poster	Authors	Title	Abstract Number
Chemistry			
1	Daniel Freedman <i>Sponsor: Catherine Dignam</i>	Investigation into the Synthetic Development of B-Diketimines	10
2	Carolyn Baker <i>Sponsor: Jesse Marcum</i>	Solvent Effects of the Photodestruction on the Nanoparticle Precursor Tetrachloroaurate	11
Psychology			
3	Stephanie Billingsley and Casey A. Lewis <i>Sponsor: Pam Ludemann</i>	The Impact of Traditionalism and Exposure on the Perceptions of Language Appropriateness in Referencing Non-Heterosexuals	52
4	Melissa Dill and Katie Kerber <i>Sponsor: Dawn Vreven</i>	The Effect of Gender on Color and Brightness Preferences	53
5	Kara Kuhlreiber <i>Sponsor: Dawn Vreven</i>	Dating Online: How Self-Esteem and Physical and Social Attractiveness Effect Desirability and Reciprocity	54
6	Katie Deptula <i>Sponsor: Dawn Vreven</i>	Effects of Music Preference and Personality on Driving Aggression	55
7	Mariah Flanagan and Cailyn Fortin <i>Sponsor: Dawn Vreven</i>	The Effects of Cell Phone Use on Attention Span	56
8	Kaleigh Rankin <i>Sponsor: Dawn Vreven</i>	Job Performance and Salary as Functions of Participant Sex, Character Sex and Gender-Role Orientation	57
9	Aislyn Zybert <i>Sponsor: Dawn Vreven</i>	Subliminal Messaging: Is it Effective?	59
28	Polinay Silva <i>Sponsor: Dawn Vreven</i>	Hysteria as a Mental Illness	58

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Poster Session 2: 3:30 p.m. – 4:15 p.m.			
Poster	Authors	Title	Abstract Number
Sociology			
10	Victoria Dost, Kristen Corbett, Jessica Geary, Frank Legere and John O'Connor <i>Sponsor: Vincent Ferraro</i>	Breaking Ground on Stand Your Ground: The Impact of Self-Defense Legislation on Lethal Violence	60
11	Colleen O'Connor, Dylan Pihl, and Michelle Heffron <i>Sponsor: Vincent Ferraro</i>	Minimizing Juvenile Delinquency: Do strong social bonds make for a better future?	61
12	Matthew Davis <i>Sponsor: Vincent Ferraro</i>	Does Strain Influence Criminal Tendencies? The Direct and Indirect Effects of Poverty on Crime	62
13	Angelique Bouthot <i>Sponsor: Ira Silver</i>	Cultivating Sex: Examining Dimensions of Adolescent Sexuality Through the Lens of Cultivation Theory	63
Fashion Design and Retailing			
14	Elizabeth Johnson <i>Sponsor: Hae Won Ju</i>	Mockshop	29
15	Samantha Pajer <i>Sponsor: Hae Won Ju</i>	Sam's Surf Shop	32
16	Erika Simon <i>Sponsor: Hae Won Ju</i>	Bridal Store	30
17	MacKenzie O'Connor <i>Sponsor: Hae Won Ju</i>	Rebel Rose: Visual Merchandising Plan	33
18	Haley Alexson <i>Sponsor: Hae Won Ju</i>	SPECTRUM-A Mockshop Virtual Store	31
19	Samantha Robinson <i>Sponsor: Hae Won Ju</i>	Parker's Daydream	34

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Poster Session 2: 3:30 p.m. – 4:15 p.m.			
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21	India Rose Ward <i>Sponsor: Hae Won Ju</i>	Rosie's Boutique	35
22	Brianna Benvenuti <i>Sponsor: Hae Won Ju</i>	Bella	36
23	Carly Rettig <i>Sponsor: Hae Won Ju</i>	Fearless Intentions	37
24	Molly Dubrowski <i>Sponsor: Hae Won Ju</i>	Circled around you	38
25	Tatiana Veira <i>Sponsor: Hae Won Ju</i>	Life Style	39
26	Margaret Looney <i>Sponsor: Hae Won Ju</i>	Ellie Belle's Boutique	40
27	Dana Harding-Hernandez <i>Sponsor: Hae Won Ju</i>	Cali. Freedom Mockshop	28

Graduate Poster Presentations Forum

Poster Session 3: 4:30 p.m. – 5:15 p.m.			
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2	Belinda Lee <i>Sponsor: Paulette Melanson</i>	Nursing Communication: Revealed Through the Implementation of SBAR	71
3	Gina M. Damp <i>Sponsor: Paulette Melanson</i>	New Graduate Nurse Preceptor Preparation	72
4	Janice Childs <i>Sponsor: Paulette Melanson</i>	Effective Teaching Strategies for Colonoscopy: Enhancing Patient Knowledge and Compliance	73
5	Kathryn A. McGinn <i>Sponsor: Paulette Melanson</i>	Ultrasound use for Peripheral Intravenous Access and Effect on Nursing Practice: An Integrative Review	74
6	Margaret Conley <i>Sponsor: Paulette Melanson</i>	Faculty-to-Student Incivility & Student Retention	75
7	Melissa Driscoll <i>Sponsor: Paulette Melanson</i>	Nurses' Perceptions of Patients With Substance Abuse	76
8	Ellen Hanley Nadeau <i>Sponsor: Ruth Remington</i>	Barriers to Asthma Management for School Nurses: An Integrative Review	77
9	Erin Morrissey and Lauren Justin <i>Sponsor: Ruth Remington</i>	Barriers and Facilitators for Nurses to Pursue Clinical Advancement Certifications	78
10	Jennifer A. Cartright <i>Sponsor: Ruth Remington</i>	Impact of Nurse Turnover on Inpatient Outcomes	79

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Poster Session 3: 4:30 p.m. – 5:15 p.m.			
Poster	Authors	Title	Abstract Number
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12	Jordan DeLucca and Nicole Isabelle <i>Sponsor: Ruth Remington</i>	Perceptions of Childhood Vaccines	81
13	Margaret Clark and Donna O'Brien <i>Sponsor: Ruth Remington</i>	Compassion Fatigue and the Effects on Professional Nursing Relationships	82
14	Mark Toland <i>Sponsor: Ruth Remington</i>	Incivility in Nursing: An Integrative Review	83
15	Mary Fay <i>Sponsor: Ruth Remington</i>	Interprofessional Education Strategies and Health Profession Students	84
16	Michelle DelPrete <i>Sponsor: Ruth Remington</i>	Implementing a Nutritional Protocol in the Intensive Care Unit	85
17	Michelle Morey <i>Sponsor: Ruth Remington</i>	Forensic and Emergency Department Nurses and Secondary Traumatic Stress: An Integrative Review	86
18	Veronica Erasquin <i>Sponsor: Ruth Remington</i>	Factors Influencing Nurse Manager Retention	87
19	Jody Reilly <i>Sponsor: Susan Mullaney</i>	Effective Methods for Teaching EBP in Pelicensure Nursing Programs	88
20	Karen Pierron <i>Sponsor: Susan Mullaney</i>	Nursing Students' Perceptions of the Dedicated Education Unit (DEU)	89
21	Laura Collins <i>Sponsor: Susan Mullaney</i>	How to Keep Our Nurses: Does Degree Level Matter?	90
22	Lisa Winders <i>Sponsor: Susan Mullaney</i>	Effective Teaching Methods for Postoperative Health Literacy	91

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Poster Session 3: 4:30 p.m. – 5:15 p.m.			
Poster	Authors	Title	Abstract Number
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24	Maureen Tapper <i>Sponsor: Susan Mullaney</i>	Prevention is the door and education is the key: Saving skin one tear at a time.	93
25	Meaghan Whitfield <i>Sponsor: Susan Mullaney</i>	Investigating the Orientation Needs of Novice Nursing Clinical Instructors	94
26	Peg Nelson <i>Sponsor: Susan Mullaney</i>	Identifying Barriers for Men in Nursing	95

Undergraduate Poster Presentations Forum

Poster Session 4: 5:30 p.m. – 6:15 p.m.			
Poster	Authors	Title	Abstract Number
Business and Computer Science			
1	Kevin Stewart, Edward Ricci, Ambruce Carter and Gabe Tompkins <i>Sponsor: Karen Druffel</i>	Attitudes related to data security and target marketing	6
2	Mark Cheli, Eamon Pac and Corin Cook <i>Sponsor: Karen Druffel</i>	How does Internet of Things Technologies Affect the Overall Appeal of a University to Students?	7
Sociology			
3	Douglas Pariseau, Benni Arias, Marissa Casey, Amy Donato, and Megan Fuller <i>Sponsor: Vincent Ferraro</i>	The Effects of Social Disorganization on Crime at the City/Town Level	64

UNDERGRADUATE ABSTRACTS

BUSINESS and COMPUTER SCIENCE

1. **Ann Sullivan, Derek Carty, Kevin Fitzgerald and Josh Mills** *Sponsor: Karen Druffel*

Cyberwarfare

The 21st century has given rise to a new age of warfare. Cyberwarfare allows a country to sabotage or spy on another country and push a political agenda through the internet. The cyber-attacks can be anything from a virus to a distributed denial of service (DDoS) attack. Countries are now constantly under attack by unknown hackers who are either trying to sabotage specific computer systems or steal strategic information, such as military movement. We will monitor real world cyber-attacks using Norse's real time cyber-attack map. We will then compare recent recorded attacks to past attacks to see how attack methods have changed. Attacks in the past have included the worm Stuxnet or the espionage malware toolkit Regain. Today, nations can send viruses and worms to each other without so much as leaving a trace. Cyber-attacks can affect a nation's system and database to the point of ruin. Cyber warfare is happening, even as you read this report.

2. **Thomas Greenhalgh, Ahmer Javed, and Matt Newville** *Sponsor: Karen Druffel*

How Well do Cloud Providers Educate Users on Security?

Cloud services are becoming more and more popular in the everyday life of the consumer. This technology allows users convenient and secure access to files from any location with an internet accessible device. The accessibility of files stored on the cloud creates security concerns for companies who maintain consumer data. Unauthorized access to cloud servers can have damaging and costly consequences to both the companies hosting the data, and the consumers. While companies must prioritize data security, consumers also hold a responsibility in the security of their data. Our research focuses on the level of transparency cloud storage providers in regards to the disclosure of their security policies. Furthermore, we will look at how well the companies stress the importance of users creating strong security credentials to help protect themselves.

3. **Kevin Todd, Tom Keefe, and Jeff Durkee** *Sponsor: Karen Druffel*

Cyberbullying

In today's world of technical innovation and an increasing number of people having access to the Internet, cyberbullying has become a rising problem with people of all ages. We know from past research that the emotional effects of cyberbullying can be devastating; however we know very little about what the physical and reputational effects might be. This study aims to determine how many people out of a 60 person population sample were directly affected by cyberbullying. In accordance with this, the study also focuses on those who have cyberbullied others. Finally, we will be looking to determine whether or not cyberbullying caused the afflicted to stop using social media. This information will be collected by the use of surveys distributed on the Framingham State University campus. We will then analyze the results and compare them with past research to form a conclusion.

4. **Jared Richard and Steve Kokidko** *Sponsor: Karen Druffel*

Bluetooth Security

Bluetooth is a growing technology for transmitting data through short range wireless connections. With this industry growing, so is the necessity to make sure these connections are safe to transmit valuable data through. Although this type of connection is used mostly for wireless headsets to connect to cell phones and connections to wireless speakers, there is still a huge risk when leaving a connection open. For instance, when someone leaves Bluetooth access open on their cell phone anyone could hack into their phone and steal whatever information they want from the owner. There are also ways that people

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key log an ad hoc network and can see all of the users' keystrokes; this allows the hacker access to view and steal data. As the younger generation grows up technology is becoming a much larger part of their lives; we want to know what type of prevention there is to help protect them, and what people can do to keep their data safe.

- 5. Priscilla Olicio, Cameron Omiccioli and Neha Vinod** *Sponsor: Karen Druffel*

Multi-Pass Authentication: An Analysis of Network Security

The use of multi-pass authentication has become increasingly popular in corporate environments. Many companies default to this form of security for their computers, in order to access a secure network, or other sensitive information. Multi-pass verification, which have been in use for the past 25 years, require the user to supply two or more forms of authentication in order to access a protected network. This paper focuses on different methods of authentication, such as tokens, biometrics, and passcodes. Tokens come in both hard (physical) and soft (electronic) forms. In this paper, we will propose a model to analyze the cost, security, and convenience of these forms of authentication.

- 6. Kevin Stewart, Edward Ricci, Ambruce Carter and Gabe Tompkins** *Sponsor: Karen Druffel*

Attitudes related to data security and target marketing

Abstract not available.

- 7. Mark Cheli, Eamon Pac and Corin Cook** *Sponsor: Karen Druffel*

How does Internet of Things Technologies Affect the Overall Appeal of a University to Students?

We identified IoT-enabled technologies applicable in a University environment, categorized them, and conducted a study on 40 FSU students to determine their appeal. In our survey, we looked at technologies that affect student life: smart parking, online bus tracking, and internet controlled room functions (climate, lights, and locks). We analyzed results of the survey to ascertain the overall appeal of IoT technologies in a University setting.

CHEMISTRY & FOOD SCIENCE

- 8. Kevin Fortier** *Sponsor: Emmanouil Apostolidis*

In vitro evaluation of Ayurvedic herbs (Centella asiatica, Bacopa monnieri, Polygonum multiflorum) for potential carbohydrate hydrolyzing enzyme inhibition

Three Ayurveda herbs (C. asiatica / Gotu Kola, B. monnieri / Brahmi and P. multiflorum/ Fo-Ti) were extracted in hot water, filtered and evaluated for their total phenolic content and rat alpha-glucosidase inhibitory activity. The total phenolic content was evaluated using the Folin-Ciocalteu's Assay and we observed that Fo-Ti had the highest phenolic content (1.14 mg/mL GAEq), followed by Gotu Kola (1.08 mg/mL GAEq) and Brahmi (0.87 mg/mL GAEq). When we evaluated the dose-dependent inhibitory activity of the aforementioned extracts against the carbohydrate hydrolyzing enzyme alpha-glucosidase, we observed that Fo-Ti had the highest inhibitory activity (54%). Gotu Kola had similar phenolic content compared to Fo-Ti but had lower inhibitory activity (32%). Brahmi showed much lower phenolic content compared to Fo-Ti and Gotu Kola as well as much lower inhibitory activity (22%). These results are expected since previous reports had shown that alpha-glucosidase inhibitory activity is phenolic dependent and Fo-Ti had significantly higher phenolic content, when compared to Brahmi. Differences between the inhibitory activity of Fo-Ti and Gotu Kola extracts is most likely due to the types of phenolic compounds found within each herb. Further evaluation of Fo-Ti was performed using LH-20 fractionation to better identify the possible bioactive fraction responsible for the observed bioactivity. Fo-Ti and the resulting fractions were evaluated for glucosidase inhibitory activity, where it was found that the low molecular

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weight fraction (LMP) had greater alpha glucosidase inhibitory activity (68%) than the high molecular weight fraction (HMP) (28%)

9. Megan Lucier *Sponsor: Vinay Mannam*

A Novel Method to Visualize Food Wastage in the United States

Food loss and food waste are becoming crucial problems that need to be addressed. The ERS estimates that 31% of edible and available food present in our food supplies at both retail and consumer levels goes unconsumed. In United States, consumers waste 10 times more food per capita than in the developing and under developed countries. In this project, the average food loss at consumer and retail levels for different food types is estimated by taking raw commodity data and nutritional data and converting it to loss percentages per product type. The method is presented for applicability using a product type from each major food group: bread, yogurt, oranges, orange juice, turkey, and processed turkey. Food loss is found to be prevalent in all groups and is higher for fresh produce and meats. This application of data representation and visualization is presented as a way to educate both consumers and food industry.

10. Daniel Freedman *Sponsor: Catherine Dignam*

Investigation into the Synthetic Development of B-Diketimines

Enaminoketones and β -diketimines are two classes of organic compounds that have been employed with success in designing enantiomerically-selective catalysts. Metal-ligand complexes formed from these organic compounds provide tunable binding pockets that are useful for preparation of the precursors for current and novel antibiotics. It is possible that analogs to these catalysts may be produced from relatively cheap enantiomerically pure amino acids.

11. Carolyn Baker *Sponsor: Jesse Marcum*

Solvent Effects of the Photodestruction on the Nanoparticle Precursor Tetrachloroaurate

The synthesis of gold nanoparticles involves complex mechanisms that are not currently well understood. Proposed mechanisms for syntheses using tetrachloroaurate as a precursor involve multiple steps that include excitation, reduction, disassociation, and disproportionation. Several such syntheses have been shown to be strongly affected by the presence of ethylene glycol; however, the specific role of ethylene glycol is unclear. To investigate whether ethylene glycol acts as a reducing agent or affects the reaction as a solvent, we have monitored the kinetics of ultraviolet photoreduction of tetrachloroaurate in the presence of various solvents. This will give insight to the role and influence that different solvents play, as well as how the amount of solvent influences gold nanoparticle formation.

COMPUTER SCIENCE

12. Brian Henriksen *Sponsor: Andrew Jung*

Minimum Number of Relay Nodes to Support 2-Edge Connected Wireless Sensor Networks

Wireless sensor networks (WSNs) have been applied to many fields to detect information in harsh environments that humans have difficulty in gathering information. Several applications have been developed to help humans such as habitat monitoring, air traffic control, and health monitoring. One of the current problems in WSNs is to overcome communication failure due to hardware failure, distributing sensors in an uneven geographic area, or unexpected obstacles between sensors. There are two main solutions to solve this problem. One is to increase transmission power, and the other is to place relay nodes among sensors, called the Relay Node Placement Problem (RNP). Both problems have been proved as NP-hard. However, we focus on placing relay nodes because increasing transmission power is not a realistic solution. Furthermore, our study focuses on RNP for survivable WSNs, which need fault

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tolerance built into the networks. In this study, we developed two different approximation algorithms to solve RNP for survivable WSNs. These two algorithms find a shortest path among sensors and form a cycle to guarantee 2-edge connectivity, but use different methods to accomplish this. One algorithm, called the greedy algorithm, finds the shortest path between the sensors until it reaches to source node. And the other algorithm finds the shortest path using minimum spanning tree (MST) and forms a cycle using Depth First Search (DFS). We compare these two algorithms through simulation. The result shows that the algorithm which uses MST and DFS requires less relay nodes than that of greedy algorithm

ENGLISH

13. Colleen Sullivan *Sponsor: Claudia Springer*

Wishing for America: The Capraesque Fairytale as a Populist Promise

The films of Frank Capra centered on the everyman archetype touched audiences and critics alike, catapulting him to a level of fame and adulation few directors of studio-era Hollywood enjoyed. He created films saturated with his personal and political viewpoints that simultaneously reflect and react towards their respective time periods. The ideological implications of his work have already sparked scholarly questions, and I enter the critical conversation to thoroughly analyze particular aspects of his work, chiefly the populist message that certainly struck a chord with audiences. Media is a powerful force in American culture, no doubt shaping how we consume and interpret the culture of our past, just as we look to media to interpret our present. In a discussion of Frank Capra's work, this idea is especially pertinent, for his idealized pictures of American values beg a careful examination of the little pocket of history they occupy, especially considering the conflicting ideologies and even characterizations present in the films. Capra presents his audience with fairytales: the little man triumphing over evil and the hero being rewarded for remaining true to his principles. But there is a violent nature hidden beneath the gentle exterior of the protagonists that begs to be analyzed. I explore these contradictions which are indicative of the tension between truth and the "Capraesque". I pay particular attention to Mr. Deeds Goes to Town (1936), Mr. Smith Goes to Washington (1939), Meet John Doe (1941), "Prelude to War" from the Why We Fight Series, and It's a Wonderful Life (1946). My research includes the use of primary sources such as film reviews and newspaper articles, and secondary sources on Frank Capra and his work to paint a clear picture of the fairytales he promised to the American people.

FASHION DESIGN AND RETAILING

14. Elizabeth Johnson, Aria Parker, and Adrianna Hubert *Sponsor: Rui-Rui Zhang*

Market Research Project

In order to understand the behavioral aspects of a retail environment, research has been conducted by analyzing shopping behaviors. Thirty customers who entered Ann Taylor's Lou and Grey, located in the Natick Mall, were observed and had their actions recorded. Without interacting with the customers, data was collected concerning their usage of fitting rooms, waiting time in checkout line and overall time spent in the store. By making these observations conclusions have been reached regarding the stores customer behavior in the environment and future recommendations for the store.

15. Gabrielle Sartell, Geraldine Cortez, Elizabeth Welch, and Jessica Rubenstein

Sponsor: Rui-Rui Zhang

Consumer Shopping Behavior at Express

The purpose of this study is to analyze the Express's consumer's behavior within the store environment and to highlight the differences in behaviors from customers in the respective store environment offered by the retailer. Sixteen behavioral factors regarding to the store's sensation stimuli, consumer's cognitive,

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affective, and behavioral decision processes were investigated in this study to provide insightful behavioral analysis in consumer's shopping pattern. The researchers found that consumers liked to shop with companions and also by themselves. Consumers spent on average two minutes and thirty seconds waiting in line when purchasing a product. The average of time spent in the store was twenty minutes. The hot zone is a popular area where most of the consumers spend their time when entering express. The researchers suggest that the "hot zone" will create more sales when providing a larger quantity of merchandise with a higher price point in order to improve Express's sales. Also researchers suggest on expanding the in stores displays most in particular, the mannequins, because a majority of consumers were fascinated with the mix and match garments that were on display. As a result several consumers tried these displayed garments and a majority were pleased enough to make a purchase. The ultimate suggestion was particularly for the sale department. The sale section occurs to be the most visited, busiest and cluttered sector. Therefore due to the organization of this department researchers suggest to include more fixtures, shelves and sizing signs in order so consumer can chronologically select garments without demolishing the department. In conclusion, this study will allow Express to become more knowledgeable about consumer's behavior, which will create an open window for a successful business.

16. Lauren Pontes, Kiana Brown, Michelle Tocci, and Kayla Benitez *Sponsor: Rui-Rui Zhang*

The Study of Consumer Behavior

The purpose of this study is to observe consumer behavior of individual shoppers at the store Aldo located in the Natick Mall. The study will focus on key factors such as the store environment regarding light fixtures, music selection and store layout and how these choices affect the behavior of shoppers. Other variables such as customer service, consumer traffic, and conversion rates are also important in studying their shopping patterns. The sample consists of forty shoppers at random selection; each consumer that walked into the store participated in the data. The method of data collection was completed by each observer either standing at the back of the store near the cash wrap desk, or standing at the entrance of the store near the windows. The customer's every move was observed and recorded onto an individual Aldo store map, at which the observers drew their traffic patterns and recorded the time and actions of each consumer. These consumers were typically young women around 20-35 years old with 1-2 shopping bags and occasionally had children with them. The study was observed on a few different days, ranging from crowded environments on a Saturday afternoon to quiet, relaxed atmospheres on a Tuesday evening. The Goal from this research is to determine the significance of different store settings/factors and how they ultimately influence the shopping behavior of a consumer.

17. Brittany Casey, Danielle Girard, Genevieve Brown and Francine Kirouac

Sponsor: Rui-Rui Zhang

Market Research for Free People

For our market research project, we evaluated a specific store, Free People, and looked at different elements in the store and developed conclusions based on shopper's behaviors. These observations were analyzed based on our knowledge of the consumer and the way they shop, from what we learned in Retailing and Consumer Behavior. The specific elements in the store that we analyzed include music, employee appearance, merchandise display, color schemes, fitting rooms, cleanliness, layout, and lighting. From these observations we were able to make recommendations to the store manager on how to improve their consumer's shopping experience.

18. Lynn Osei, Jahlicia Blake, and Ashley Keazer *Sponsor: Rui-Rui Zhang*

The Shopping Patterns of Customers in Nordstrom Men's Sportswear Department

The purpose of this research is to analyze the Men's sportswear department of Nordstrom and the everyday customers who shop there. Also analyzing the customers shopping habits and behavior, using the many concepts and methods that are defined in Pac Underhill's book Why We Buy: The Science of Shopping. Nordstrom Men's sportswear department always has a lot of foot traffic, not only from men shopping but females, and kids as well, some come alone and others come in groups. According to Underhill in Chapter 8 of Why We Buy "Shop Like a Man" men are almost complete opposites when it

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comes to shopping from women. Analyzing a men's department many of the concepts are derived from this chapter because although not only men are shopping there, men are the target markets so everything is meant to appeal to the male eye. After analyzing the department and shoppers for several hours it was found that shoppers in the Men's department, have very similar shopping patterns and behavior. Which in turn allows the sales associates and company as a whole to predict what the consumer wants, when they want it, and how they will react towards it. This allows for a successful department that keeps loyal consumers coming back.

19. Rachel Flaherty *Sponsor: Seunghye Cho*

Fashion for Future Mothers

The purpose of this research is to understand the target market and design maternity clothing for everyday wear. The target market consists of women 20-40 who are currently pregnant. The methodology used was a ten question survey taken by twenty currently pregnant and recently pregnant women age 20-40. Research of maternity lines in popular stores as well as interviews with pregnant women were also examined. Pregnant women were found to want maternity clothes that are comfortable, versatile, and flattering. Most of the respondents reported preferring dark colored clothing and clothing that had minimal prints. Most answered that they spend less than \$20 a week on maternity clothes. Majority of respondents said that they would like maternity clothing that is comfortable, preferably made out of cotton, but also stylish. This information was compiled to create a collection of six looks that satisfy the target customer's wants and needs found through the research. The designs incorporate the fabric choices and colors that pregnant women reported preferring as well as being comfortable, flattering, and versatile. These designs can be worn after the baby has been born which causes the pregnant women to be willing to spend a little more money on them. The designs are meant to move the eye away from the women's belly since pregnant women can be self-conscious about their size as reported in the survey and interviews. These designs are made to reflect the target customer and what they are looking for in maternity wear.

20. Roseanna Ward *Sponsor: Seunghye Cho*

European Style of Design

The purpose of this research is to explore European style of design and apply elements of design as well as inspiration to my own artistic concepts. The methodology used was qualitative research of well-known international designers and their artistic facets within their designs and artworks. These artists included fashion designers, architects, authors, color theorists, shoe designers, urban artists, fashion religions and studies, along with scientific studies relating fashion and technology. It is predicted that the ability to analyze the artistic aspect of European style of design through these artists will push my creativity levels. It will also create an understanding as to why where I came from as a designer has an immense impact on my artistic influences. Thus, among these artists I analyzed and was most inspired by Bottega Veneta's film, entitled "Emotion of Sound." This unique initiative resulted in the process of how I may incorporate myself as a choreographer and myself as a designer into my designs. In turn I applied Bottega Veneta's "Emotion of Sound" to my own designs through a collaboration of myself as a choreographer and as a designer. This information was then formulated into athletic wear designs. Additionally, I discovered how to creatively show rhythm, fluidity and movement within my athletic wear designs. The target market consists of those in various creative fields that allow themselves to see the world inventively. This type of consumer falls into the target market because of their mind and creative ability rather than their outward aesthetic and appearance. This research resulted in and allowed me to convey this information into my own design process resulting in a concept that works towards featuring my design aesthetic imaginatively and true to who I am as an artist.

21. Rachel Wheeler *Sponsor: Hae Won Ju*

Effects of Model's Appearance on Self-Esteem, Impression Formation, and Purchase Intention

This study seeks to observe changes in the self-image of female college students after viewing a fashion advertisement (ad). Differences in the self-images of those who view advertisements featuring thin models and those who are shown images of plus-size models are also observed. An evaluation of the

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inferences made by the participants regarding the models' personality traits is made using the models' appearance as a basis. Body size influences on a consumer's purchase intentions are also investigated. A questionnaire survey is used to evaluate the self-image of the subjects both before and after viewing an advertisement, gather data about the impressions formed, and purchase intentions. Conclusions are reached based on the data gathered.

22. Jordan Rowe *Sponsor: Hae Won Ju*

Divine

Disney Retail Store

23. Katherine Callahan *Sponsor: Hae Won Ju*

Simply Chic

This project allowed for the creation of my own personal store through the use of Mockshop, which is a visual retailing computer program that allows for the design of your own retail store. Mockshop is used by many popular, well known brands and retailers such as: Nike, Macy's and Tommy Hilfiger. Through the use of this program I was able to come up with and create Simply Chic. Simply Chic is a women's retail store that sells simple and classic styles of clothing, while also being chic and feminine. The color palette of the merchandise and the store is kept simple, clean and airy, which is perfect for the Summer 2015 season.

24. Jocelyn Dion *Sponsor: Hae Won Ju*

Mock Shop Store

The Mockshop visual store and I will be presenting the story board that goes with it.

25. Kristen Torres *Sponsor: Hae Won Ju*

Mockshop – Gatsby

For my presentation I will be creating a Women's lingerie store called, Gatsby. It will consist of luxury undergarments in a relaxed and classy setting. The target market is upper-middle class men looking to buy a gift for their significant other. The store's main competitor will be Victoria Secret; however this store will tailor specifically to men or more elegant consumers. I will be creating an example of this store through Mockshop which will represent what the store will look like and what type of products it would sell. The presentation will also include a poster which will represent other aspects of the store.

26. Justine Dorsi *Sponsor: Hae Won Ju*

La Mode

La Mode is a virtual retail store I created through the Mockshop software. There is an assortment of merchandise which was applied using various visual merchandising concepts, planning, and strategies.

27. Olivia Spadafore *Sponsor: Hae Won Ju*

Mockshop Designs: Kiwi

Abstract not available.

28. Dana Harding-Hernandez *Sponsor: Hae Won Ju*

Cali. Freedom Mockshop

In my Theory and Industry Applications class, a project was given to create a store using Mockshop. I created a store called Cali. Freedom, which sells bohemian style women's wear for the summer season. Through a poster presentation, an overview and explanation of Cali. Freedom will be given, including information on the theme, store layout, target market, price range, and size of the store along with images

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of the store. The poster will also display planograms and an organized display of all the merchandise in the store.

29. Elizabeth Johnson *Sponsor: Hae Won Ju*

Mockshop

With the software and lessons spent in the lab, Mockshop has been used to produce a one of a kind store. With Mockshop, A Touch of Lavender was produced and serves as a mock lingerie boutique. The program has required considerate thought regarding store layout, product lighting fixtures and more. Combining visual merchandising skills learned in class and personal design touches the freedom to produce a store visually puts knowledge learned to the test.

30. Erika Simon *Sponsor: Hae Won Ju*

Bridal Store

Abstract not available.

31. Haley Alexson *Sponsor: Hae Won Ju*

SPECTRUM-A Mockshop Virtual Store

Consumer purchasing behavior is a challenging action to predict and it is increasingly more challenging to determine what influences it. Visual merchandising has been shown to influence consumer purchasing behavior when done in a way that is appealing to the consumer. SPECTRUM--a virtual retail store that sells ladies apparel, jewelry and accessories utilizes visual displays for their merchandise based solely on the biggest motivation for shopping--color. This store will experiment with visual merchandising techniques utilizing different elements of color and determine the success it would have on hypothetical consumer purchasing behavior.

32. Samantha Pajer *Sponsor: Hae Won Ju*

Sam's Surf Shop

A mockshop of a surf shop located in Malibu, CA. This store is targeted at young women between the ages of 16 and late 20's. The store focuses on selling items that can be easily worn on and off the beach to allow for the fun, free-spirited girl to always feel comfortable and prepared for the spontaneous trips to the beach. The purpose of creating this store is to develop a visual merchandising strategy that will most effectively sell our products to these women.

33. MacKenzie O'Connor *Sponsor: Hae Won Ju*

Rebel Rose: Visual Merchandising Plan

For my mockshop project I created a store using vRetail, a virtual program used throughout the fashion industry. This program will help me better prepare myself to enter the industry as a visual merchandiser. Through the vRetail program I developed the concept for my own store. The store, Rebel Rose, is a women's wear store that caters to the 18-28 age demographic. Its price range is within the mid-high range, with some pieces as low as \$45 going upwards of \$200. I selected merchandise to fit my store image and customer demographic. I also created a store environment that would appeal to my ideal customer. In addition to this I worked to better understand my competition, so that I knew how to set myself apart in order to gain a larger customer base.

34. Samantha Robinson *Sponsor: Hae Won Ju*

Parker's Daydream

This is a small dress shop called Parker's Daydream. It was created using the Mock Shop program. It sells dresses for formal events as well as accessories, such as shoes and purses, to pair with the gowns.

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35. India Rose Ward *Sponsor: Hae Won Ju*

Rosie's Boutique

Rosie's Boutique is a smaller women's apparel store located in western Mass. This store is similar to PacSun and has a lot of the same customers. Rosie's has a target of young adults with free time and spending money. Through Visual Retailing an online store has been created. This online store includes the window display, a fully stocked store, along with many other fixtures. Rosie's is located among many other stores in North Hampton. The price point ranges from 20-70 dollars. This store has an open layout and pathways to draw the consumer in. With an overall California style, many young adults enjoy shopping here.

36. Brianna Benvenuti *Sponsor: Hae Won Ju*

Bella

Mockshop has allowed me to learn how to set up and visually merchandise my own store. The virtual store represents how I would set up my own store if I ever had the chance. The program allowed me to pick the exact clothes, design, and set up of everything, while really teaching me how much work goes into a job like this.

37. Carly Rettig *Sponsor: Hae Won Ju*

Fearless Intentions

Fearless Intentions is a trendy small boutique. Merchandising female fashions for the women in her 20's that are supported by an income from \$.50-80,000 per year. Fearless Intentions is merchandising Summer 2015 fashion now. A variety of casual clothing is available including dresses, shorts, graphic tanks, shirts, and jeans.

38. Molly Dubrowski *Sponsor: Hae Won Ju*

Circled around you

Abstract not available

39. Tatiana Veira *Sponsor: Hae Won Ju*

Life Style

Life Style is store for young college aged women, merchandised with spring 2015 collections. It's biggest competition is Urban Outfitters because both stores share a similar target market and style.

40. Margaret Looney *Sponsor: Hae Won Ju*

Ellie Belle's Boutique

Using the program Mockshop Store, I designed a children's boutique, called Ellie Belle's Boutique. I added clothing and accessories I found on the web and put them folded and hanging on and in fixtures. I created dressing rooms and used my visual merchandising skills to sell the clothing in my virtual store.

41. Michaela Froio *Sponsor: Hae Won Ju*

Posh

I utilized the program Mockshop in order to produce my own store. This store was fabricated through my own personal ideas and creativity and the program allowed me to create a virtual reproduction of my ideas.

NURSING (UNDERGRADUATE)

- 42. Christopher Richard and Susan Cugini** *Sponsor: Ruth Remington*

Intentional Rounding: Great Nursing Made Easy

Intentional Rounding Abstract Intentional rounding is an evidence-based practice that has been implemented on medical / surgical units in this country as well as other countries across the world. This poster was the result of a thorough literature review through Cinhal and EBSCO host. The results are conclusive that intentional rounding is an affective intervention in as a researched metrics. It has proven to decrease falls, decrease call bell use, increase patient satisfaction, and increase staff satisfaction.

- 43. Yelena Yezerskaya** *Sponsor: Ruth Remington*

Bar Coded Medication Administration

Bar Coded Medication Administration Abstract The acute care institutions have been using the Bar-Coded Medication Administration (BCMA) technology for several years now. The software solutions have been originally developed as an EMR (Electronic Medical Record) module. According to the recent research, there has been a demonstrated improvement in patient outcomes associated with the adoption and use of BCMA solutions. The EMR systems are the major component of transforming the modern health care into more agile and safe environment. Therefore, the goal of BCMA integration into existing Healthcare IT environment is to reinforce and improve the safety and accessibility of acute healthcare environment. The implementation and integration of BCMA technology into the health care system has resulted in significant reduction of medication errors, improved nursing and physician workflow. Another important outcome associated with use of BCMA is documented reduction of patient safety events. Numerous research studies suggest that implementation of BCMA into clinical setting improves care coordination between pharmacists, nurses, and doctors. Furthermore, evidence shows that implementation of BCMA results in short term and long term benefits to other healthcare settings, namely post-acute and sub-acute. The other benefits of BCMA include ease of access to pharmacy, availability of consults, physician's ability to prescribe required medications in timely manner with improved accuracy.

- 44. Eileen Paulsen, Michele LaCroix, and Daniella Louis** *Sponsor: Ruth Remington*

Maggot Therapy

Maggot Therapy for Non-healing Chronic Wounds Michele LaCroix-Eleen Paulsen-Daniella Louis **Abstract** Problem: Non-healing chronic wounds. Literature Review: shows that using maggot therapy for non-healing chronic wounds is more cost effective, reduces healing time, can decrease antibiotic use, can decrease the need for surgical interventions, and decrease healing time. In a study by the International Journal of Dermatology complete debridement was achieved in 88.4% of intractable wounds. The mean duration of treatment was 10.2 days. Also stated was that pain and odor were significantly reduced. Maggot therapy has been used in diabetic wound, traumatic wounds, post-op wounds, leg ulcers, and pressure ulcers. Maggot therapy also eliminates infection including MRSA (methicillin resistant staph aureus).

- 45. Elizabeth Bao, Evelyn Leon, and Simon Torres** *Sponsor: Ruth Remington*

Is Music Advantageous in the Operating Room?

Noise is a health hazard and a source of stress. Hospital noise levels are rising and it is especially prevalent in operating rooms. Although noise in the operating room is unavoidable, music is a choice. The majority of operating room personnel listen to music even though multiple studies have found music to be distracting and a contributing factor to communication errors. On the other hand, some studies have found music to benefit performance. A literature review was preformed to find more research regarding the benefit or disadvantage of music playing in the operating room.

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46. Naomi Kiarie, Afua Aboagyewa-Bethea, and Dominique Dufresne *Sponsor: Ruth Remington*

Parents, Premature Babies, and Kangaroo Care

Objective: To study the effects of Kangaroo care and standard traditional care on preterm infants. Methods: A literature review of various studies conducted around the world between 2006 and 2013. Results: There was a significant reduction in mean length of stay in hospital. There is an increase in exclusive breastfeeding rate at discharge from the hospital. Fewer babies were admitted to the neonatal intensive care unit (NICU). Parents felt more confident in caring for their preterm infant. The overall majority of neonatal nurses strongly believed that all parents of pre-term infants should be encouraged to practice kangaroo care. Conclusion: Despite the conduction of the research at various parts of the continents, there was positive outcome in the practice of kangaroo care. Kangaroo care serves as an appropriate alternative to standard care when possible

47. Nicole Mains and Theresa Watson *Sponsor: Ruth Remington*

Bedside Shift Report

Shift report is a fundamental component to quality patient care. In order to improve patient safety the Joint Commission requires healthcare organizations to have a standardized approach to clinical handoff. A review of the literature suggests that bedside shift reporting improves patient care, patient satisfaction and accountability.

48. Virginia Coen, Catherine Hurwitz, and Diane Leary *Sponsor: Ruth Remington*

Physiological Effects of Canine-Assisted Therapy on Cardiac Patients

Canine-assisted therapy has been used in hospital settings with cardiac patients. The objective of this project was to review the literature related to canine-assisted therapy efficacy with cardiac patients. Results found are decreased pain, blood pressure, stress hormones; increased ambulation, participation in care and patient satisfaction scores.

PSYCHOLOGY

49. Jelissa Guy *Sponsor: Dawn Vreven*

The Effect of College Aged Males' Marijuana Use on College Students' Perspectives

Abstract not available

50. Tiffany Courtney *Sponsor: Dawn Vreven*

College Students Perspectives on Adopted Foster Childs Contact with Biological Mother

This study examines college students' perspectives on whether a child adopted from foster care should have contact with their biological mother. College students read one of four scenarios depicting a child who was adopted at either age 3 or 12, and was put into foster care either because of their biological mother's drug abuse, or the biological mother's neglect. A student's positive or negative perception of the biological mother was measured using a Likert scale with 16 items. Likewise, positive or negative views towards the adopted child's contact with the biological mother were measured using a Likert scale with 14 items. One hypothesis is that college students will agree to contact more between a child who was adopted at a younger age, and a biological mother than a child who was adopted at an older age. It is also hypothesized that college students will have a more positive perception of a mother who was a drug addict than one who was neglectful. The final hypothesis is that participants who are adopted, and have contact with their biological parent(s), will have a more positive view of the birth mother than participants who are adopted and do not have contact with their biological parent(s), or are not adopted.

51. Stephanie Billingsley

Sponsor: Pam Ludemann

Personality and Gender Differences and their Influence on Social Media Usage and Perceived Friendship Damage

Over the past decade, social networking sites (SNS) have become a vital socialization tool for many individuals all over the world. As its popularity has increased many researchers have started to explore its impact on interpersonal relationships. This study specifically explored the associations between personality traits and gender on technology usage. Additionally, it examined the effect that transgressions, using technology, have on perceived friendship damage and loss. Participants included 200 undergraduate students who read fictional vignettes in which a transgression occurred either through Facebook or mass text message and responded to questions that measured their perceived friendship damage and loss. The UCLA Loneliness Questionnaire, a social anxiety scale, the brief Big-Five Scale, and an extroversion/introversion scale were completed. Findings indicated that stability and anxiety were correlated with perceived friendship damage and loss. Additionally, women perceived more friendship damage and loss than men. Findings suggest that social media users might act to protect themselves from becoming victims of inappropriate messaging.

52. Stephanie Billingsley and Casey A. Lewis

Sponsor: Pam Ludemann

The Impact of Traditionalism and Exposure on the Perceptions of Language Appropriateness in Referencing Non-Heterosexuals

This study examined the relationships among traditionalism, exposure to socially inappropriate language, and negative attitudes towards non-heterosexuals. Participants included 125 undergraduates, 75% of whom were women. The students filled out questionnaires regarding their demographics, views of gender roles, religiosity, and homophobia. Students also responded to items that measured their exposure to socially inappropriate language through the media and friends/family, as well as self-use. Findings indicated that exposure to socially inappropriate language was greatest through the media. Additionally, traditional gender role views was a strong predictor of non-acceptance of non-heterosexuals. Religiosity, although not as strong of a predictor, was also related to negative attitudes toward non-heterosexuals. The impact of each of these factors on participants' socially inappropriate language usage was discussed.

53. Melissa Dill and Katie Kerber *Sponsor: Dawn Vreven*

The Effect of Gender on Color and Brightness Preferences

A common finding in color preference studies is that men tend to prefer the color blue and women tend to prefer the colors pink and purple. We were curious if there were differences in brightness preferences among men and women. Forty six (26 female and 20 male) students from Framingham State University participated in a computerized experiment to rate how much they like colors of different brightness levels. Twenty-five color patches were used in the experiment. Five colors were used: red, blue, green, purple, and yellow. Additionally, each color was presented with five different brightness values: 25%, 37.5%, 50%, 62.5% and 75%. Participants were shown every possible pairing of the 25 color patches, for a total of 300 trials. Participants were instructed to indicate which color patch they prefer using the 'E' and 'I' keys on the key board. The researchers expect to find women will select brighter colors more often and men will select darker colors more often.

54. Kara Kuhtreiber

Sponsor: Dawn Vreven

Dating Online: How Self-Esteem and Physical and Social Attractiveness Effect Desirability and Reciprocity

The present study was conducted to investigate the effects of participant self-esteem and a scenario character's physical and social attractiveness on desirability and participant expectations of reciprocity in an online dating scenario. Participants consisted of 80 undergraduate students from a small university. After completing the Rosenberg Self-Esteem scale, participants were randomly assigned to view one of four fictitious dating profiles that contained a picture of either a physically attractive or physically

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unattractive man or woman paired with either a socially attractive or socially unattractive description. After reading the dating profile, participants were asked to complete a 19-question survey containing three manipulation checks, eight desirability items, and eight reciprocity items. All questions followed a six-point Likert scale format. Results indicated both a significant main effect and interaction for physical and social attractiveness on desirability, as well as a significant main effect for self-esteem on reciprocity. Further studies may use results to investigate risk-taking behavior as a function of self-esteem.

55. Katie Deptula *Sponsor: Dawn Vreven*

Effects of Music Preference and Personality on Driving Aggression

Driving anger is a dangerous phenomenon that researchers typically do not explore. The aim of this study was to investigate traits that may be associated with high or low driving anger. Participants consisted of 70 students. The measures used in this study are music preference and personality. Personality was measured by John, Donahue, and Kentle's (1991), and John, Naumann, and Soto's (2008) Big Five Inventory, music preference was measured by Rentfrow and Gosling's (2003) Short Test of Music Preference, and driving anger was measured using by Deffenbacher, Oetting, and Lynch's (1994) Driving Anger Scale. It was hypothesized that participants with high openness scores will score high on the Driving Anger Scale. It is also predicted that participants who prefer intense and rebellious music will score high on the Driving Anger Scale. Results showed no significant correlations between the Driving Anger Scale with music preference and personality. Further research will be guided to examining other traits that are correlated to anger, specifically driving anger.

56. Mariah Flanagan and Cailyn Fortin *Sponsor: Dawn Vreven*

The Effects of Cell Phone Use on Attention Span

Since 2000, the number of mobile phones in the developing world has increased 1700%. In today's society, cell phones have become an important part of everyday life. The purpose of this experiment is to test if cell phones have an effect on the attention span of college students. To test this hypothesis, first participants will be asked to fill out a self-reported questionnaire of their own cell phone use and beliefs. Then participants will be split up into three groups to watch a short clip. One group will be asked to keep their cell phones on them and place it on the table in front of them. The next group will be asked to turn their cell phones off and leave them in the front of the room with the researcher. For the last group, nothing will be said about the phones. The video is short, ranging from 8-12 minutes. After the participants watch the clip, they will be asked to complete a small quiz on what they just watched. It is hypothesized that the group with their cell phones on the table will score lower on quizzes than those who do not have their cell phones on them. Also, females will be more likely than men to use their cell phones while watching the video clip.

57. Kaleigh Rankin *Sponsor: Dawn Vreven*

Job Performance and Salary as Functions of Participant Sex, Character Sex and Gender-Role Orientation

The purpose of the study was to examine participant sex and scenario character sex as influential factors in relation to perceived job performance and salary estimations. A sample of 72 undergraduate students were recruited and asked to read a job scenario in one of two conditions. Condition one depicted a male character and condition two depicted a female character. In both conditions the characters were equal on various qualifications. Participants were asked to rate job performance and estimate annual salary for the scenario character. Some marginally significant results, $\chi^2(6) = 8.65$, $p = .07$, were found with participant sex and scenario character sex in relation to estimated salary. Male participants estimated higher salaries than female participants for the male scenario character.

58. Polinay Silva *Sponsor: Dawn Vreven*

Hysteria as a Mental Illness

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The present study examined the history of the psychological illness of hysteria. The study investigated how modern psychology perceives hysteria in today's world. Also, the study illustrates how hysteria has changed over the years using new terminology.

59. Aislyn Zybert *Sponsor: Dawn Vreven*

Subliminal Messaging: Is it Effective?

Abstract not available

SOCIOLOGY

60. Victoria Dost, Kristen Corbett, Jessica Geary, Frank Legere and John O'Connor *Sponsor: Vincent Ferraro*

Breaking Ground on Stand Your Ground: The Impact of Self-Defense Legislation on Lethal Violence

Purpose: The Trayvon Martin (2012) and Michael Brown (2014) incidents angered citizens across the nation and necessitated a discussion regarding self-defense. The adoption of Stand Your Ground (SYG) and Castle Doctrine (CD) laws have been justified as means to protect oneself, one's home, family, and possessions. Specific statutes vary from state to state, but the justification remains consistent. Guided by deterrence theory, which illustrates how certain factors inhibit or prevent crime, this research aims to identify the effect of SYG/CD laws on crime. Specifically, the deterrent effect of SYG/CD laws on lethal violence will be analyzed. **Methods:** Deterrence theory serves as the foundational theory in this research, shaping the rationale for these laws and, subsequently, their analysis. Bivariate and multivariate analyses will be conducted using cross-sectional data from the 2012 Uniform Crime Reports Supplementary Homicide Report, reported by individual police forces across the country. This report contains situational details on 13,063 homicides. **Results:** Contrary to the suggestion of deterrence theory, it appears the presence of SYG/CD laws have no effect on violence. Although some evidence supported the hypothesis regarding predatory violence, results contradicted the hypotheses regarding reactionary violence and lethal gun violence. There were no significant findings relevant to the justifiable homicide hypothesis. **Discussion:** The findings would indicate that SYG/CD laws are ineffective. In some cases, SYG/CD laws actually increase lethal violence, the exact act the laws are intended to deter. If reducing lethal violence is the goal, states contemplating implementation of these laws should halt considerations, and states with SYG/CD laws should repeal.

61. Colleen O'Connor, Dylan Pihl, and Michelle Heffron *Sponsor: Vincent Ferraro*

Minimizing Juvenile Delinquency: Do strong social bonds make for a better future?

Early onset delinquency has been shown to produce poorer social outcomes later in life. These include increased rates of unemployment, lower income and even future criminality. This study examines the correlation between social bonds and youth behavior, providing a case for the effectiveness of pro-social relationships and activities in regards to youth behavior using social control as the guiding theory. Social Control theory states that if individuals have strong bonds with society they are less likely to commit acts of deviance. The bonds are broken into four elements: attachment, commitment, belief, and involvement. The strength of the four elements and their influence on youths' participation in delinquent acts will be analyzed using four distinct hypotheses tested through multivariate and bivariate analyses of data selected from the fourth wave of the National Longitudinal Study of Adolescent Health. Add Health collected this information by conducting in home interviews with youth from 80 high schools and 52 middle schools. The data for this study are representative of youths in grades 7-12 across the entire United States, and controls for geographic region and demographics. Our findings are less likely to commit minor transgressions when they have strong ties to society. This research supports the four elements of social control theory with some concessions to control variables. Furthermore this study

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proves that a youth's involvement with society provides his or her with the chance for a better future. The results of this research are relevant for improving parenting techniques and at risk youth programming.

62. Matthew Davis *Sponsor: Vincent Ferraro*

Does Strain Influence Criminal Tendencies? The Direct and Indirect Effects of Poverty on Crime

Abstract not available.

63. Angelique Bouthot *Sponsor: Ira Silver*

Cultivating Sex: Examining Dimensions of Adolescent Sexuality Through the Lens of Cultivation Theory

This paper expands cultivation theory and connects it to adolescent sexuality. Cultivation theory posits that the prevalence of violence on television does not create more violence but instead a society in fear of violence. This project shows that media-generated fears about adolescent sexuality do not mean adolescents are suddenly becoming more sexual. Specific topics related to adolescent sexuality that are explored include hooking up and sexting. Media cultivation around these behaviors plays into deeper societal fears and changes in the culture of adolescence, distracting parents and policy makers from the more realistic ways to keep adolescents safe.

64. Douglas Pariseau, Benni Arias, Marissa Casey, Amy Donato, and Megan Fuller

Sponsor: Vincent Ferraro

The Effects of Social Disorganization on Crime at the City/Town Level

By understanding the predictors of crime, policy can be amended to further deter criminality. Social disorganization theory suggests unfavorable conditions in a community may lead to criminal behavior. However, studies have offered conflicting expectations for the effect of social disorganization on crime. Previous research has shown weak links between residential instability and violent crime (Boggess and Hipp 2010; Roh and Choo 2008), as well as concentrated disadvantage and violent crime (Barnett 2002), and the effect of family disruption on crime is continuously debated (Roh and Choo 2006; Sun, Triplett, and Gainey 2004). This study adds clarity to the effects of social disorganization as a predictor of crime by examining the effects of socio-economic conditions on crime at the city/town level. Cross-sectional city and town-level crime data was derived from a sample of 1,552 cities and towns using the Uniform Crime Report and demographic data from the American Community Survey for the years 2005-2007. The effects of five dimensions of social disorganization (population heterogeneity, residential instability, concentrated disadvantage, family disruption, and urbanization) on crime are studied using bivariate and multivariate analyses. This study assesses the effectiveness of these dimensions as predictors of crime. Family disruption and concentrated disadvantage are shown to be effective predictors of crime. Population heterogeneity and residential stability appear to be less effective when urbanization or concentrated disadvantage are introduced as controls. These findings are significant in clarifying the correlation between social disorganization and crime, and may assist criminal justice organizations nation-wide in creating effective crime reduction policies.

GRADUATE ABSTRACTS

NURSING

70. Angela Lesure *Sponsor: Paulette Melanson*

How Mindfulness Meditation Influences Nursing Students' Emotions: An Integrative Review

Nursing students often experience anxiety, stress, and depression during nursing education, which can negatively impact their academic performance. The purpose of this review is to analyze recent literature regarding the influence of mindfulness meditation on nursing students' emotions and to determine if

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mindfulness meditation can be an effective intervention for managing negative emotions in nursing students. A review of the literature was conducted utilizing CINAHL and ERIC databases. Inclusion criteria consists of nursing students, journals in academic or clinical settings, journals published in the United States or international journals, and English language journals. Unpublished research reports and dissertations were excluded. The findings of this integrative review demonstrate that mindfulness meditation can be an important resource for decreasing nursing students' experience of anxiety, stress, and depression in academic and clinical work. The conclusions revealed that mindfulness meditation may offer a way to help decrease nursing students' level of anxiety and stress during nursing education in order to increase their success within academia.

71. Belinda Lee *Sponsor: Paulette Melanson*

Nursing Communication: Revealed Through the Implementation of SBAR

Abstract Purpose: The purpose of this integrative review was to examine nurses' communication skills with the use of a report model including phases; Situation, Background, Assessment, and Recommendation (SBAR) in an interdisciplinary environment during critical events. **Background:** Nurses' on the frontline of healthcare delivery are expected to develop essential communication skills to promote safe and quality care for patient care. The SBAR tool is meant to improve communication techniques between the nurse, physician, and other healthcare team members. **Methodology:** A comprehensive literature review was performed searching databases; CINAHL, Google Scholar, and Science Direct resulting in 13 articles, published in English from the United States, England, and Belgium. **Editorial, integrative review, qualitative, quantitative, and quasi-experimental studies were integrated.** **Findings:** The data underscores nurses' interdisciplinary communication skills. The implementation of the SBAR tool reveals some common themes with nurse-physician and nurse-team communication when faced with patient care issues. **Discussion:** The nurse's communication skills are affected by role, behavior, and education during critical events with physicians and interdisciplinary teams while utilizing the SBAR report tool. **Conclusion:** The nurse's role, behavior, and educational preparedness affect communication skills during critical events. Further research is needed to examine how SBAR tool can continue to improve communication techniques between nurses, physicians, and interdisciplinary teams. **Key terms:** nursing communication, situation report model, SBAR, healthcare communication, and patient safety

72. Gina M. Damp *Sponsor: Paulette Melanson*

New Graduate Nurse Preceptor Preparation

Knowledge of new graduate nurse preceptors' perceptions on the benefits of training programs has the potential to aide in the reform of the preceptorship process. The aim of this integrative review is to offer the insights of new graduate nurse preceptors in relation to engaging in preceptor training programs. Literature from the databases CINAHL, OVID, Science Direct, and an ancestry search yielded eight pertinent studies utilized for the review. The findings suggest that preceptors view training prior to precepting new graduate nurses as beneficial to their practice. Research on the preceptor's perceptions of the benefits and disadvantages of training should be taken into consideration when developing preceptorships for new graduate nurses. Further research on this topic could change nursing policy for the betterment of support for preceptor development and new graduate transition into the nursing profession.

73. Janice Childs *Sponsor: Paulette Melanson*

Effective Teaching Strategies for Colonoscopy: Enhancing Patient Knowledge and Compliance

Aim: To determine which teaching strategies are most effective in enhancing pre-procedural compliance in colonoscopy patients. **Method:** Using the health belief model as a framework, seventeen primary research studies were reviewed from six different countries between the years 2000-2014. Five different types of teaching strategies were identified. **Results:** Face to face educational strategies, printed educational materials and patient navigators were most effective. Video instruction and telephone educational strategies were beneficial when used with other teaching methods. Strategies were more effective when used in the proper circumstance, were combined with other strategies and when they

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explained the risks of colorectal cancer and how colonoscopies can reduce that risk. Conclusion: Patient compliance is increased with the use of combined teaching strategies written for all levels of health literacy and education. Screening adherence is improved when instructions explain the importance of colonoscopy. Effective patient education can improve compliance and the quality of the procedure, while reducing failed colonoscopies and healthcare costs. Keywords: Colonoscopy, colonoscopy preparation, patient education.

74. Kathryn A. McGinn *Sponsor: Paulette Melanson*

Ultrasound use for Peripheral Intravenous Access and Effect on Nursing Practice: An Integrative Review

Purpose: The purpose of this integrative review is to evaluate current literature surrounding nurse implemented ultrasound guided peripheral intravenous access and its effect on placement success rates, nursing confidence, and nursing competence. Background: In Emergency Departments (ED), obtaining peripheral venous access falls under the scope of nursing practice. With annual ED visits rising to over 130 million per year in the United States and increasing difficult access patient populations, nurse driven ultrasound guided peripheral intravenous access programs are being implemented to provide professionals who meet this growing demand. Method: Nine articles were chosen for this integrative review from a broad review of literature between 2004 - 2014 from electronic databases and application of strict inclusion and exclusion criteria. Findings from this review were organized utilizing Albert Bandura's Self-Efficacy Theory. Results: All articles demonstrated higher intravenous placement success rates and nurses' increased competence and perception of mastery. Conclusions: Nurse implemented ultrasound guided peripheral intravenous access programs provide safe, patient centered care. Initial results deemed these programs fiscally responsible. Continued evaluation needs to occur. Further research to standardize mastery of this skill needs to be performed. Financial cost to implement programs may be the reason this does not become a mandated standardized practice.

75. Margaret Conley *Sponsor: Paulette Melanson*

Faculty-to-Student Incivility & Student Retention

Aim: The purpose of this integrative review is to analyze literature related to faculty-to-student incivility and the affect it has on undergraduate nursing student retention within a nursing program. Background: Faculty incivility disrupts the teaching-learning environment and can influence students' decisions to either withdraw or persist in their academic program. In order to improve student retention rates and combat the nursing shortage, it is crucial to understand how faculty-to-student incivility affects undergraduate nursing students' retention within their nursing programs. Method: A search of CINAHL, ERIC, and Google Scholar yielded seven pertinent research articles. Findings: The literature reveals that faculty-to-student incivility affects undergraduate nursing students' decisions to either withdraw or persist in their nursing program. The themes that emerged were demeaning remarks, lack of support and care, unfair treatment, and students' emotional and behavioral responses to faculty-to-student incivility. Conclusions: While some students withdraw from their program, others show resilience against bullying. Faculty must be aware of the effect their behaviors and attitudes have on students' decisions to remain in their nursing programs.

76. Melissa Driscoll *Sponsor: Paulette Melanson*

Nurses' Perceptions of Patients With Substance Abuse

Substance abuse is a rising issue in our society and caring for this patient population plays an important role in the nursing profession. The purpose of this integrative review is to examine nurses' perceptions of substance abuse patients and to determine how the therapeutic relationship between the nurse and the patient is affected. The theoretical framework by Hildegard Peplau, The Theory of Interpersonal Relations, can be used to help educate nurses on the importance of understanding their own personal beliefs and bias before caring for substance abuse patients. Eight nursing research studies were found using the reputable databases CINAHL, OVID, and PubMed. After analyzing the various research studies, the common themes of negative attitudes, education, role support, and the ethical duty to care

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were discovered to be factors affecting the therapeutic relationship between the nurse and substance abuse patient. Future research in the area of professional preparation, education, and support is needed to show that these interventions are improving nurses' perceptions and therapeutic attitudes of substance abuse patients.

77. Ellen Hanley Nadeau

Sponsor: Ruth Remington

Barriers to Asthma Management for School Nurses: An Integrative Review

Childhood asthma is a growing health concern. With an estimated seven million children affected, asthma is the most common chronic illness of childhood and a leading cause of emergency room visits, hospitalizations, and school absenteeism. School nurses play a valuable role as part of an interdisciplinary team to improve the health of children with asthma. The purpose of this integrative review was to examine the barriers to asthma management for school nurses in the school setting. Four electronic databases were examined. Six studies met the inclusion criteria for peer-reviewed, research articles in English language, conducted from 2002 to present. Evidence derived from this integrative review suggests several themes related to the barriers school nurses encounter in managing asthma in the school setting. The five recurring themes included lack of: resources, support, time, communication, and knowledge. Students, parents, primary care physicians, school administration and staff, and school nurses themselves play a role in constructing barriers to asthma management. School nurses and school nurse leaders need to focus efforts to develop strategies to overcome barriers for all stakeholders to ensure evidence-based, best practice management of asthma in the school setting.

78. Erin Morrissey and Lauren Justin

Sponsor: Ruth Remington

Barriers and Facilitators for Nurses to Pursue Clinical Advancement Certifications

While extensive higher education, strict examination and state licensure is a requirement for registered nurses (RN) to practice patient care, additional specialty nursing certifications are a voluntary professional achievement for the individual nurse to exhibit a specific set of skills and knowledge. Obtaining a specialized nursing certification demonstrates that a nurse has met established standards that reflect nationally accepted principles and values for practice in a specific clinical area. However, while there may be obvious benefits for nurses to obtain specialty certifications, there are also several barriers that the literature has described as hindrances for nurses who have considered specialty certification. The aim of this literature review was to identify the barriers and facilitators for nurses obtaining specialty certifications. This integrative review was completed through an extensive electronic database hand and ancestry literature search of specialty certifications using keywords such as barriers and facilitators and specialty certification. The literature was evaluated using appraisal techniques and tools to assist in identifying major themes. As a result, several key themes were extracted from the literature that identified the barriers and facilitators for nurses seeking specialty certification.

79. Jennifer A. Cartright *Sponsor: Ruth Remington*

Impact of Nurse Turnover on Inpatient Outcomes

Aim: The aim of this integrative review is to explore what impact nurse turnover rate in hospitals has on patient outcome. **Background and significance:** Nurse turnover is an ongoing problem for healthcare organizations. Many studies have examined the cost of turnover, but few have focused on its impact on patients in hospitals. It is important to determine what the effects of nurse turnover are. **Methods:** For this integrative review, search of CINAHL+, Google Scholar, ERIC, OVID, and Medline were done for data collection. Data were limited to articles published between 1993 and 2015 with a focus on nurse turnover and patients in the hospitals. **Results:** Moderate to high nurse turnover rate in hospitals is associated with several outcomes including an increase in patient falls and medication errors. Also noted was an increase in patient length-of-stay, nosocomial decubitus ulcer rate, and mortality rates. **Conclusion:** Using strategies to retain nurses and reducing turnover rate can positively affect patient quality of care and outcomes. **Implications for nursing leaders:** When addressing the issue of nurse

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turnover in their organizations, nurse leaders need to focus not only on the business aspect of nurse turnover, but also on the impact of turnover on patients which in itself can be very costly. This study should be helpful in making a case for developing nurse retention strategies. Key words: nurse, turnover, impact, patient, hospitals, integrative review, outcomes

80. John Huether Sponsor: *Ruth Remington*

What is the Impact of Shared Governance on Empowerment?

Abstract Aim: To explore how the implementation of Shared Governance (SG) structures impacts empowerment. Background: Nursing leaders have implemented SG structures to enhance empowerment, in response to retention issues, nursing shortages, and high turnover rates. Nevertheless methods of measurement and questionable results exist. Methods: An integrative review (IR) was conducted using multiple databases during the period of January 1994 to December 2014. A hand search of relevant journals increased the scope of this search. Results: Research articles from United States, Canada and United Kingdom were drawn from multiple databases. Eight studies were identified in the literature. A critical appraisal of the articles reveals that SG influences empowerment however further investigation is warranted. Conclusions: The vast amount of literature describing implementation strategies and qualitatively exploring nurse's perceptions of experiences and improvements on empowerment is available. However, further research, including baseline data with longitudinal studies (greater than five years post SG implementation) would be beneficial. Implications for Nursing Management: Implementation SG strategies should be explored. Nurse leaders and staff nurses should actively engage in these activities. Keywords: Empowerment, Hawker Appraisal Tool, Kanter's Theory of Empowerment, Integrative Review, Nursing Leadership, Shared Governance, Unit Based Councils.

81. Jordan DeLucca and Nicole Isabelle Sponsor: *Ruth Remington*

Perceptions of Childhood Vaccines

The purpose of this integrative review was to examine the reasoning for resistance from parents in regards to immunizing their children against the recommended vaccine-preventable diseases. The age ranges of the children used in the samples were three months to 18 years of age. The age ranges of the parents of the children were 13 years old to 56 years. Findings were centered around parents' fears of the vaccines having harmful side effects, media influences, socioeconomic factors, and ages of the mothers.

82. Margaret Clark and Donna O'Brien Sponsor: *Ruth Remington*

Compassion Fatigue and the Effects on Professional Nursing Relationships

Abstract Aim: The purpose of this integrative review was to critically examine the effects of compassion fatigue (CF) on professional nurse relationships. Background: Increasing stress in healthcare has potential for negative effects on work relationships among nurses. Understanding how compassion fatigue influences the nurse-patient relationship is equally important as recognizing that CF effects nurse-to-nurse communication and peer interactions that negatively influence patient care. In contrast, compassion satisfaction (CS) motivates a unique group of individual nurses to flourish as compassionate caregivers. Methods: An integrative review was conducted through a systematic and comprehensive search of the literature using electronic databases, hand searches, and ancestry searches. Each article selected for inclusion was critically appraised and scored using an adaptation of the Hawker method. Results: Study findings of compassion fatigue were noticeably decreased in an atmosphere of solidarity and mutual respect among nurses. Resiliency programs to meet the emotional and physical needs of nurses dealing with CF have proven to be effective. As demonstrated in our study, nurses who have a sense of camaraderie and a supportive environment are less likely to develop CF. Conclusion: Developing collaborative and cohesive work relationships to build effective professional relationships within and between nursing units is a strategy to decrease CF. Combined with teaching and supportive coping skills for all nurses to minimize the effects of the CF while caring for the critically ill patients can also have a positive effect on patient care. Key words: compassion fatigue, empathy, nurse collegiality, burnout, secondary traumatic stress, professional relationships, nursing, and vicarious traumatization

83. Mark Toland

Sponsor: Ruth Remington

Incivility in Nursing: An Integrative Review

Background Workplace incivility affects more than 85% of bedside nurses, and has been linked to higher levels of staff turnover, negative workplace environments, mental distress, and threatens patient care. **Objective** The purpose of this integrative review is to examine the impact incivility has on the inpatient nurse, and to discern the role that the nurse manager plays in eliminating workplace incivility. **Method** An exhaustive and systematic review of the literature was performed which included the use of CINAHL, ERIC, Health Source, MEDLINE, Ovid, PubMed, Psychology and Behavioral Sciences Collection, and PsychINFO electronic databases. 46 research studies were reviewed for relevance related to inclusion and exclusion criteria. **Results** Nine (n=9) studies were selected for final analysis. Common themes noted in each of these studies included interprofessional incivility, triggers of uncivil behavior, patient safety, and education. **Conclusion** Workplace incivility can have devastating effects on patient care. Analysis from the data compiled for this review has demonstrated a link between not only workplace incivility and decreased teamwork, poor morale, and increased absenteeism, but also, there is greater risk for patient harm associated with workplace incivility. **Implications for nursing management** It is vital for nurse managers to ensure that their staff provide safe, high-quality patient care, in a respectful and collegial environment. When present, managers must implement strategies to eliminate uncivil behaviors. **Keywords:** healthy workplace environment, incivility, nursing management, patient safety, professionalism

84. Mary Fay

Sponsor: Ruth Remington

Interprofessional Education Strategies and Health Profession Students

Abstract Background: Since 1999, the IOM has published several position papers citing communication failures amongst health professionals as a major cause of patient errors and sentinel events. Traditional approaches in care and management of patients has yielded a healthcare workforce inept at collaborating and communicating. Current trends in global healthcare mandate a redesign of health profession programs that teach and foster interprofessional collaboration as a means to improve health outcomes of patients and communities. **Methods and Findings:** This integrative review explores international research published between January 1, 2010 and December 15, 2014, and evaluates the effectiveness of an interprofessional education (IPE) intervention applied to two or more health profession disciplines. A total of eight articles met inclusion criteria. Findings indicate a positive impact in the areas of communication, shared knowledge, and role clarity amongst health profession students. Findings also revealed critical reflection as essential for sustaining changes in knowledge, skills, and attitudes of students. Limitations included small study samples, poor description of curricula framework description, facilitator training, and student backgrounds. **Conclusion:** IPE is an effective method for fostering interprofessional learning and collaborative practice. Future research is needed to identify best practices and learning environments that promote IPC. Healthcare leadership and government organizations will be essential in promoting a culture of change surrounding interprofessionalism. **Keywords:** 'interprofessional practice', 'interprofessional collaboration', 'interprofessional education strategies'

85. Michelle DelPrete

Sponsor: Ruth Remington

Implementing a Nutritional Protocol in the Intensive Care Unit

Background/Aim: Malnutrition in Intensive Care Units is a major concern for patients and the critical care team. The use of nutritional protocols has been implemented in some institutions yet is not standardized for all ICU's. The Aim of this integrative review is to explore the published research for associations between the implementation of a standardized nutritional protocol and outcomes for critically ill patients in the ICU. **Methods:** A review of the literature was conducted for this integrative review using CINAHL, OVID, Medline, and PubMed. Key terms include: nurs*, nutrition*, intensive care unit, critical care unit, protocol, algorithm, and malnutrition. Hand and ancestry searches were completed. The time frame for the search was 2002- December 2014. **Inclusion criteria:** Peer reviewed, English language, empirical research articles, adult patient population in ICU or critical care unit, including international multidisciplinary articles, articles pertaining to the use of a nutritional protocol or nutritional algorithm. **Exclusion criteria:** Literature reviews, integrative reviews, editorials, pediatric ICU's, and articles not

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pertaining to implementation of a nutritional protocol. Results: A search of the results yielded a total of 82 articles. Nine research articles met inclusion criteria. The sample-included research articles all of Quantitative Design for critically ill patients in the ICU. Conclusions: This integrative review supports the use of a nutritional protocol in ICU's to improve nutritional outcomes for critically ill patients leading to shorter time to enteral feed patients, an increase the advancement of feedings, and improved quality indicators. Additional outcomes included the importance of education and collaboration amongst the multidisciplinary team.

86. Michelle Morey *Sponsor: Ruth Remington*

Forensic and Emergency Department Nurses and Secondary Traumatic Stress: An Integrative Review

Abstract The role of forensic and emergency department nurses involves frequent and routine interactions with victims of trauma and crime. The frequent exposure to trauma victims while providing treatment and care can cause these nurses to develop secondary traumatic stress (STS), which can have a detrimental effect on their overall health. The purpose of this integrative review is to determine the relationship between forensic and emergency department (ED) nurses and STS. Using the keywords sexual assault nurse examiner (SANE) or nurse, and secondary traumatic stress or vicarious trauma (VT), 371 articles were obtained from five electronic databases from January 2004 through December 2014. Ancestry and hand searches were also conducted. The application of inclusion and exclusion criteria reduced the number to 10 qualitative, quantitative, or mixed-method articles. The articles were appraised for content and analyzed for potential common themes. On average, approximately 42% of forensic and ED nurses were found to have experienced symptoms of STS. Peer support was identified as one of the leading factors to decrease the prevalence of STS among this trauma nurse population. Nurse leaders are faced with the challenge of increasing awareness of STS, and developing and implementing effective strategies to reduce the occurrence of this problematic condition.

87. Veronica Erasquin *Sponsor: Ruth Remington*

Factors Influencing Nurse Manager Retention

Abstract The aim of this study is to identify and analyze the nursing literature related to factors that influence nurse manager's retention. Nurse managers are the cornerstone to a nursing unit's failure or success. Nurse managers have an impact on patient satisfaction, health care cost, staff retention, and staff morale affecting the quality of patient care. Electronic search were from several databases such as Cumulative Index to Nursing and Allied Health Literature (CINAHL), Education Resources Information Center (ERIC), MEDLINE, Ovid, PubMed, and PsychINFO. The studies selected for inclusion met the criteria of being peer reviewed, research articles, English language, published from January 2003 December 2014. Key words used were nurse managers and intention and retention, nurse managers and intention and turnover, nurse managers and job satisfaction, nurse managers and factors and intention, nurse managers and retention and termination, nurse managers and retention and hospital. There were 7 studies used as a sample for this review. The findings demonstrated that nurse manager's retention is multifactorial. The major themes emerged include job satisfaction, organizational systems, personal reasons, and quality patient care. Other factors identified in studies were effective communication, having the work-life balance to prevent burn out, empowerment by senior leadership to managers all contributed to nurse managers' longevity at their position. More qualitative research is necessary to explore further the link between job satisfaction and nurse manager's retention, along with factors as to why managers leave their position as a nurse manager to go into another nurse manager role. Nurse administrators will need to establish strategies to retain nurse managers. Proper training, education, mentorship, providing nurse managers the work-life balance, adequate support from their boss were all reasons that influence nurse manager's intention to stay in their position.

88. Jody Reilly *Sponsor: Susan Mullaney*

Effective Methods for Teaching EBP in Prelicensure Nursing Programs

Abstract Today there is a call to integrate EBP with competencies to improve the quality of care. Nurse educators have the difficult task of teaching undergraduate students how to research EBP in a reputable fashion and how to translate that research to the actual care given. The purpose of this integrative review is to explore the most effective methods used for teaching evidence-based practice (EBP) in the undergraduate prelicensure nursing program. Eighteen nursing research studies were found in the databases of CINAHL, CINAHL-Plus, Science Direct and Medline. Key words used were education*, nurs, evidence-based practice, and undergraduate. Analysis of the studies showed evidence of three primary themes which include embedding in the curriculum, updated research classes, and collaborative learning. The effectiveness of the methods used to teach EBP may depend on the type of prelicensure nursing program. Teaching EBP successfully will encourage nursing research, patient-centered care, and strengthen the profession.

89. Karen Pierron *Sponsor: Susan Mullaney*

Nursing Students' Perceptions of the Dedicated Education Unit (DEU)

The purpose of this integrative review is to explore the perceptions of nursing students' experiences in a Dedicated Education Unit (DEU) compared to the traditional clinical model. Nursing education is constantly searching for innovative ways of educating our future nurses. As the DEU gains increased attention, an evaluation on the students' perceptions should also be considered. Sixteen research studies were selected using the following searched databases: Refseek, MEDLINE, Cumulative Index to Nursing and Allied Health Literature (CINAHL), Google Scholar, PubMed, and EBSCO host. Key words included: clinical education, undergraduate nursing education, student perceptions, dedicated education units, DEU clinical experience, limitations of clinical instruction, clinical staff support, clinical evaluation, and clinical attitudes and beliefs. There were four major themes identified: communication, critical thinking, learning, and relationships. The findings concluded that the overall perceptions of nursing students' experiences were significantly more favorable with the DEU over the traditional model. Major factors included an inviting academic environment, the consistency in quality of instructors, and increased attention with more hands on experiences and exposures. Investigation of these perceptions may also provide support for a change in the traditional clinical model in order to promote a solution to increasing enrollment, budget challenges, faculty shortages, and decreased clinical placement sites, by implementation of the DEU.

90. Laura Collins *Sponsor: Susan Mullaney*

How to Keep Our Nurses: Does Degree Level Matter?

The nursing shortage in the United States is projected to reach a critical level by 2022 unless drastic interventions are employed to recruit more nurses and improve the retention of currently practicing ones. The purpose of this integrative review was to investigate the impact of education level on registered nurse retention in the profession. Nine nursing research studies were identified through a literature search of CINAHL, ERIC, Ovid, and PubMed. Emerging themes with an impact on nurse retention included professional longevity, empowerment, and occupational commitment. These were enhanced as nurse education level increased; findings related to the relationship between job satisfaction and education level were mixed. Encouraging higher levels of education for nurses will help minimize the nursing shortage by increasing nurse retention and the total number of years that nurses remain in active practice.

91. Lisa Winders *Sponsor: Susan Mullaney*

Effective Teaching Methods for Postoperative Health Literacy

Abstract **Keywords:** health literacy, postoperative education, nursing, patient teaching. **Purpose:** The purpose of this integrative review is to discover the most current evidence-based practice strategies that effectively teach postoperative patients about their care in a way that promotes health literacy and improves patient outcomes. **Design:** The design is in the form of an integrative review. **Methods:** An

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electronic database search of CINAHL, Ovid, PubMed, ERIC and Google Scholar along with an ancestry search provided data from 6 research studies including those published in the last 10 years, in the English language, and peer reviewed with a focus on the adult population. Findings: Three major themes consistently found were the importance of health literacy, utilizing a combination of interactive strategies to improve comprehension, and nursing impact. Conclusions: It would be beneficial to postoperative patient outcomes and the overall healthcare financial environment to implement and practice these proven teaching methods to improve health literacy.

92. Marissa K. Thomas *Sponsor: Susan Mullaney*

Examining the Role that Educational Strategies Play in End-of-Life and Palliative Nursing: An Integrative Review

Abstract The need for palliative and end-of-life care (EOL) is rapidly growing to support an aging population. In order for registered nurses to provide high quality and comprehensive EOL care, nurses need training and education that is focused on this particular knowledge area and clinical skill set. The purpose of this integrative review is to determine which educational strategies focused on palliative and EO care are effective and helpful for staff nurses. Searches have been conducted on five electronic databases using key words and inclusion criteria. The findings are based on the examination of 14 studies. Four common themes were revealed in the analysis including online education, face-to-face education, blended learning, and other educational strategies. The findings illustrate the diversity of educational approaches with an overall positive effect on nursing education. The educational strategies have improved nurses' knowledge, competence, and attitudes regarding the care of patients and families at EOL. Lecture is the primary approach to education; however, there is a need to develop and evaluate innovative and accessible delivery methods. Recommendations for future research would be valuable on examining the impact of teaching methods on improvements in patient/family outcomes. Key words: nurs*, health care workers, palliative care, teaching methods, end-of-life care, end-of-life education, hospice care, interventions, education, strategies, and educational programs

93. Maureen Tapper *Sponsor: Susan Mullaney*

Prevention is the door and education is the key: Saving skin one tear at a time.

Pressure ulcers are a significant problem in health care today, despite efforts by stakeholders to enhance practice and create guidelines. In the United States pressure ulcers affect 2.5 million patients, cost just over \$11 billion dollars, and are the cause of 60,000 deaths. Nurses as the primary caregiver of the hospitalized patient are essential to the prevention of pressure ulcers. The purpose of this integrative review is to investigate the impact of nurse-centered education programs focused on pressure ulcer prevention and its effect on prevalence. Medline, CINAHL, OVID Nursing, Google Scholar, Science Direct, PubMed, and various government websites were searched for peer-reviewed and evidence-based studies published between 2005 and 2014. In total 11 studies were selected to be analyzed for this review. Six nurse-focused components were identified including nursing impact on pressure ulcer prevention, education of staff, skin care champions, prevention best practices, and pressure ulcer rates. The findings suggest that comprehensive nurse-focused education programs have the potential to improve clinical outcomes. It is recommended that future research should focus on exploring nurses' attitudes, perceptions, and awareness in regards to pressure ulcer prevention. Additionally, to investigate barriers that might deter creating or maintaining pressure ulcer prevention practice changes. Keywords: pressure ulcer and prevention, pressure ulcer and prevention and education, pressure ulcer prevention and nursing, pressure ulcer and education program, nurse and pressure ulcer and knowledge, nurse and pressure ulcer and awareness, pressure ulcer and prevention and quality improvement.

94. Meaghan Whitfield *Sponsor: Susan Mullaney*

Investigating the Orientation Needs of Novice Nursing Clinical Instructors

Background: Nursing faculty shortages are a nationwide problem that is impacting the field in many ways. One remedy schools of nursing are utilizing is the employment of adjunct clinical instructors. Orientation programs for these adjunct clinical faculty widely vary and do not necessarily meet all the needs of novice

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clinical instructors. Method: A review of current literature was conducted to determine the orientation needs of novice nursing clinical instructors using the databases CINAHL, OVID, ERIC, and PubMed and ancestry searches. Findings of this integrative review are based on 13 studies that met the pre-determined inclusion and exclusion criteria. Findings: Information compiled from the studies shows there is an array of topics that can prove beneficial to be included in the orientation of clinical instructors. Prevalent orientation topics included information on clinical policies and objectives, student evaluation, and clinical agency orientation. Analysis of the studies also identified the themes of basic role information and faculty connections, curriculum content, resources and technology, and educational strategies. Conclusions: Comprehensive orientation for the nursing clinical instructor that covers multiple aspects of the role is important to the success and effectiveness of adjunct faculty members. Further research is needed on this subject as well as how to effectively integrate the topics discussed into an orientation program.

95. Peg Nelson *Sponsor: Susan Mullaney*

Identifying Barriers for Men in Nursing

Abstract With a significant nursing shortage looming, the recruitment of men will be key to solving health care staffing needs. Men continue to represent less than 10% of professional nurses. The purpose of this integrative review was to look at barriers related to gender stereotypes and how they might contribute to the persistent minority of men in nursing. Databases searched included CINAHL, ERIC and PubMed, using terms men in nursing, gender stereotypes, and males nurses. The fifteen articles reviewed showed a pattern of discouragement, delay, and denial based in stereotypes toward men interested in nursing as a career path and staying in the profession. Further research is needed to identify recruitment and retention strategies to increase the presence of men in nursing.