

Schedule of Events

9:30am	Registration	McGann
10:00am	Opening Remarks	McGann
10:15am	Invited Speaker	McGann

*Examining Dynamic Interactions across Cultures:
The Science of Language Development*

Lisa Tafuro, Ph.D.

Assistant Professor

Department of Communication Studies

11:30 - 12:30pm	Session I	
	Art Exhibition	McGann
	Poster Presentations	McGann
	Paper Presentations	N316, N319, N323
12:30pm	Lunch	
1:00 - 2:00pm	Session II	
	Art Exhibition	McGann
	Poster Presentations	McGann
	Paper Presentations	N316, N319, N323
2:00pm	Closing Remarks	McGann



Session I

11:30 - 12:30pm

Art Exhibition

McGann

Board 71	
Bruno, Alissa	INTERPRETATION OF THE ORDINARY
Department of Fine Arts	Faculty Advisor: Dawn Lee, M.F.A.

Poster Presentations

McGann

Board 11	
Normile, Tyler	CELL CYCLE ARREST OF BLADDER CANCER CELLS BY BUFALIN
Department of Biology	Faculty Advisor: Valerie Giordano, Ph.D.

Board 12	
Skolnick, Matthew	COMPLAINING 2.0: VENTING ON FACEBOOK IMPROVES MOOD
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 13	
Prochaska, Charles	FLUORESCENT INTERCALATORS, 'CLICK' POLYMERIZATION AND POLY-INTERCALATION
Department of Physical Sciences	Faculty Advisor: Andrea Stadler, Ph.D.

Board 14	
Campos, Adabelle	CELL PHONE USE IN THE HOME AND THE DETRIMENTAL EFFECT ON FAMILY COHESION
Department of Human Relations	Faculty Advisor: William Bengston, Ph.D.

Board 21	
Singh, Mohnish Kamath, Karthik Plotke, Brendan Mincieli, Louis Videtto, Christopher	EUTROPHICATION OF THE LOWER PART OF THE GREAT PATCHOGUE LAKE
Department of Biology	Faculty Advisor: Mohammad Rana, Ph.D.

Board 22	
Ferguson, Daniel	THE BUS-DRIVER SANITY PROBLEM
Dept. of Mathematics and Computer Science	Faculty Advisor: Philip Lombardo, Ph.D.

Board 23	
Maraj, Caitlin	INFLUENCE OF ATTACHMENT STYLES ON SOCIAL NETWORKING BEHAVIOR
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 24	
Garay, Joshua Leung, Ashley Steed, Katherine Iadarola, Cassandra Waters, Lorena Virzi, Samantha	CEPHALOPODS CAMOUFLAGE AND REGENERATION
Department of Biology	Faculty Advisor: Heather Bennett, Ph.D.

Board 31	
Beanblossom, Nicole Litrenta, Maria McNamara, Bridget	WILL THERE BE A SECOND DATE? ATTACHMENT INFLUENCES
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 32	
Pineda, Yoselyn Wells, Matthew	ENDOCRINE DISRUPTION CHEMICALS EFFECT ON DEVELOPMENT & REGENERATION
Department of Biology	Faculty Advisor: Moira Royston, Ph.D.

Board 33	
O'Halloran, Erin Romano, Kimberly	DIDACTIC GESTURES OF MOM AND BABY ACROSS CULTURES
Department of Communication Studies	Faculty Advisor: Lisa Tafuro, Ph.D.

Board 34	
Lenz, Deanna	THE ROAD TO FREEDOM
Department of English	Faculty Advisor: Judith Phagan, D.A.

Board 41	
Cruz, Victor Contreas, Jessica	THE REGULATION OF CELLULAR SIGNALING BY CANCER RECEPTORS
Department of Biology	Faculty Advisor: Valerie Giordano, Ph.D.

Board 42	
Balestrieri, Michael	ANALYSIS AND OPTIMIZATION OF THE SYNTHESIS OF THE POTENT ANTI- TUMORIGENIC CYCLIC TETRAMER OF INDOLE-3-CARBINOL
Department of Physical Sciences	Faculty Advisor: Andrea Stadler, Ph.D.

Board 43	
Agoglia, Christopher Gelo, Valerie Carbajal, Brandon Friszell, Anthony Lawrence, Kirk Treboux, Dominique	STRESS RESPONSES TO SUPER STORM SANDY: AGE, GENDER, AND DISTANCE
Departments of Psychology and Sociology	Faculty Advisors: Dominique Treboux, Ph.D. and Kirk Lawrence, Ph.D.

Board 44	
Ryan, Caitlyn	GENDER STEREOTYPES, ORGANIZATIONAL SIZE, AND GENDER COMPOSITION OF LAW FIRMS: A CONTENT ANALYSIS
Department of Sociology	Faculty Advisor: Kirk Lawrence, Ph.D.

Board 51	
Correa, Gisellis Harrison, Victoria	INDOLE-3-CARBINOL AND ITS DERIVATIVES ON ANTI-TUMORIGENIC EFFECTS
Department of Biology	Faculty Advisor: Valerie Giordano, Ph.D.

Board 52	
Domenech, Arielle Blanco, Karla Treboux, Dominique	THE EFFECT OF HEARING VS. SEEING NARRATIVES ON EMPATHETIC REACTIONS
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 53	
Frizzell, Anthony	ATTITUDES TOWARD SEX AMONG YOUNG ADULTS
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 54	
Reid, Brianna	DECREASING THE EFFECTS OF AGING THROUGH THE MANIPULATION OF AEROBIC METABOLISM IN THYMOCYTES
Department of Biology	Faculty Advisor: Francis Antonawich, Ph.D.

Board 61	
Castro, Nicholas	THE EFFECT OF ENDOCRINE DISRUPTOR TEBUFENOZIDE ON MANDUCA SEXTA
Department of Biology	Faculty Advisor: Moira Royston, Ph.D.

Board 62	
Pepe, Nicholas	A COMPARISON OF VISUAL AND AUDITORY SHORT-TERM MEMORY
Department of Psychology	Faculty Advisor: Teresa Tannazzo, Ph.D.

Board 63	
Compas, Laetitia Kumari, Sonali Rana, Mohammad Delaney, Tetyana	THE STUDY OF NANOPARTICLE-INDUCED DNA DAMAGE AND STRUCTURAL ABNORMALITIES IN PLANTS
Department of Biology	Faculty Advisor: Mohammad Rana, Ph.D.

Board 64	
McMaster, Cody Rowland, Steve	INVESTIGATING METABOLIC DYSFUNCTION TO TRIGGER CELL DEATH
Department of Biology	Faculty Advisor: Francis Antonawich, Ph.D.

Paper Presentations

Room N316	Moderator: William Bengston, Ph.D.
Levinness, Jessica Cronin, Anne David, Anne-Louise	VALIDITY OF MOBILE HEART RATE APPLICATIONS AS MEASURES OF PHYSIOLOGICAL STRESS
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.
Smith, Colleen	AN EXPLANATION ON THE DIFFERENCES IN GRAY AND HARP SEALS' DEFENSE MECHANISMS
Department of Psychology	Faculty Advisor: Teresa Tannazzo, Ph.D.
Mazanek, Lorraine Barcia, Nicole Carmody, Shannon Waka, Lauren Crawford, James Wysocki, Ericka Carcano, Samantha McClafferty, Mallory Roach, Kelli Cacciuttolo, Gina	A CASE FOR LEISURE EDUCATION IN ELEMENTARY SCHOOLS
Department of Recreation	Faculty Advisor: Lorraine Lubicich, M.A.
McNamara, Bridget	ROMANTIC RELATIONSHIPS OF YOUNG ADULTS WITH DOWN SYNDROME: PARENTS' PERSPECTIVE
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Room N319		Moderator: Valerie Giordano, Ph.D.
Scipioni, Christian		THE INHUMANITY OF “FILTHY CREATION”: MARY SHELLEY’S FRANKENSTEIN AND PHYSICAL MONSTROSITY
Department of English		Faculty Advisor: Susan Nakley, Ph.D.
Mandriota, Morgan		FRANKENSTEIN, SYMPATHY FOR THE CREATURE: HUMANITY IN THE MONSTER VERSUS THE SAVAGE IN THE HUMAN
Department of English		Faculty Advisor: Susan Nakley, Ph.D.
Martin, Megan		MILTON’S EVE: FIRST FACILITATOR OF REDEMPTION
Department of English		Faculty Advisor: Marc Ricciardi, Ph.D.
Franza, Nina Laliberty, Kelly		LOVING VS PUNITIVE GOD: EMPATHETIC REACTIONS TO OTHERS
Department of Psychology		Faculty Advisor: Dominique Treboux, Ph.D.
Merle, Kristen		THE MOTHERS OF CREATION: THE OBEDIENT AND THE DISOBEDIENT
Department of English		Faculty Advisor: Judith Phagan, D.A.

Room N323		Moderator: Andrew Jacobs, Ph.D.
Bulzone, Maria Webber, Caitlynn		PATRIOTIC POETRY
Department of English		Faculty Advisor: Judith Phagan, D.A.
Greco, Gabriella		MINDING THE GAP: MUSIC, LIGHT, AND BROTHERHOOD IN “SONNY’S BLUES”
Department of English		Faculty Advisor: Judith Phagan, D.A.
Quagliata, Alyssa		MATHEMATICS IN MUSIC
Dept. of Mathematics and Computer Science		Faculty Advisor: Vasil Skenderi, Ph.D.

Session II

1:00 - 2:00pm

Art Exhibition

McGann

Board 71	
Peterson, Heather	THE MAROON: A CREATIVE TALE ABOUT A RUNAWAY SLAVE
Department of English	Faculty Advisor: Judith Phagan, D.A.

Poster Presentations

McGann

Board 11	
Sementilli, Anthony Bruno, Alissa Karve, Abhijit Babst, Benjamin Alexoff, David	USE OF POSITRON EMISSION TOMOGRAPHY AND GENE EXPRESSION ANALYSIS TO STUDY SUGAR ACCUMULATION IN SORGHUM BICOLOR
Department of Biology	Faculty Advisor: Valerie Giordano, Ph.D.

Board 12	
Yactayo, Estefania	DIFFERENCES IN WORKING MEMORY BETWEEN BILINGUAL IMMIGRANTS, FIRST GENERATION AMERICAN BILINGUALS, AND FIRST GENERATION AMERICAN MONOLINGUALS YOUNG ADULTS
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 13	
Reischman, Dava	ELUCIDATION OF CELL SIGNALING PATHWAYS USED DURING VIRAL INFECTION TO OVERRIDE GROWTH CONTROL IN FIBROBLASTS
Department of Biology	Faculty Advisor: Valerie Giordano, Ph.D.

Board 14	
Flaherty, Steffani	PARKINSON'S DISEASE AND THE RELATION TO AGING: FOCUSING ON MITOCHONDRIAL DYSFUNCTION
Department of Biology	Faculty Advisor: Francis Antonawich, Ph.D.

Board 21	
Compas, Laeticia Lazaro, Kelvin Kumari, Sonali	RESTORATION OF PATCHOGUE LAKE. COMMUNITY SERVICE PERFORMED BY BIOLOGY CLUB & SJC COMMUNITY
Department of Biology	Faculty Advisor: Mohammad Rana, Ph.D.

Board 22	
Kelly, Thomas	UNDERSTANDING SUCCESS: THE RELATIONSHIP BETWEEN GRIT AND SUBJECTIVE WELL-BEING
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 23	
Costanzo, Vienna Finger, Anna Treboux, Dominique Lawrence, Kirk	PRO-SOCIAL BEHAVIORS IN RESPONSE TO SUPER STORM SANDY
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 24	
Silvestre, Molly Mills, Matthew Ramkissoon, Roland	THE INHIBITION OF PYRUVATE KINASE IN CANCER CELLS TO PREVENT CELL PROLIFERATION
Department of Biology	Faculty Advisor: Francis Antonawich, Ph.D.

Board 31	
Blanco, Daisy Raspanti, Zachary Rego, Matthew Russell, Trevon Rana, Mohammad	A STUDY OF LICHENS AND PLANT TUMORS IN RESPONSE TO AIR POLLUTION ON SJC GROUNDS
Department of Biology	Faculty Advisor: Mohammad Rana, Ph.D.

Board 32	
Drzymala, Emily Drzymala, Brittany Syed, Shahab	ENDOCRINE DISRUPTING CHEMICALS AND ASSOCIATED EFFECTS ON INHERITANCE, FERTILITY, AND LONG ISLAND
Department of Biology	Faculty Advisor: Moira Royston, Ph.D.

Board 33	
Franza, Nina	ARE SPIRITUAL COUNSELORS MORE EMPATHETIC? THE RELATIONSHIP BETWEEN SPIRITUALITY AND EMPATHY IN POTENTIAL COUNSELORS
Department of Psychology	Faculty Advisor: Teresa Tannazzo, Ph.D.

Board 34	
Laliberty, Kelly Franza, Nina Treboux, Dominique Ginnetty, Paul	THREE DEGREES OF SEPARATION: GENDER DIFFERENCES IN EMOTIONAL REACTIONS
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 41	
Polizzo, Gina McCord, Lianna Pappochia, Chelsea Nasberg, Adriana Lawrence, Nadene	MEDICINAL PROPERTIES OF ENDEMIC PLANTS OF LONG ISLAND
Department of Biology	Faculty Advisor: Mohammad Rana, Ph.D.

Board 42	
Leviness, Jessica Peterkin, Aethlyn	RELIABILITY AND VALIDITY OF MOBILE HEART RATE APPLICATIONS
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 43	
Doherty, James	THE EFFECTS OF GLYPHOSATE WITH GENISTEIN ON MCF-7 BREAST CANCER CELLS
Department of Biology	Faculty Advisor: Valerie Giordano, Ph.D.

Board 44	
Smith, Colleen	SOCIAL LEARNING IN DOMESTIC RABBITS
Department of Psychology	Faculty Advisor: Teresa Tannazzo, Ph.D.

Board 51	
Cronin, Anne Moisan, David Auer, Erin Baker, Christa	PHYTOCHEMICAL INDUCTION OF APOPTOSIS IN MULTIPLE CANCER CELL LINES
Department of Biology	Faculty Advisor: Valerie Giordano, Ph.D.

Board 52	
Anderson, Taylor	TRANSITORY RELATIONSHIPS: UNDERGRADUATE AND GRADUATE PERCEIVED SATISFACTION, LOVE AND INVESTMENTS IN ROMANTIC RELATIONSHIPS
Department of Psychology	Faculty Advisor: Darshanand Ramdass, Ph.D.

Board 53	
Bruno, Alissa Sementilli, Anthony	USE OF $^{14}CO_2$ TO MEASURE PHOTOSYNTHATE ALLOCATION AND TRANSPORT SPEEDS IN GRAIN AND SWEET SORGHUM
Dept. of Physical Sciences	Faculty Advisor: Andrea Stadler, Ph.D.

Board 54	
Lazo, Alexis Lindstrom, Arielle Littles, Dawn Yactayo, Estefania	STRESS RESPONSES TO SUPER STORM SANDY ONE YEAR LATER: GENDER AND DISTANCE
Departments of Psychology and Sociology	Faculty Advisors: Kirk Lawrence, Ph.D. and Dominique Treboux, Ph.D.

Board 61	
Agoglia, Christopher	WORK ENVIRONMENT, EXERCISE, AND WORK OUTCOMES
Department of Psychology	Faculty Advisor: Dominique Treboux, Ph.D.

Board 62	
Block, Taylor Marx, Stephanie	MOTHERS' REFERENTIAL LANGUAGE ACROSS CULTURE AND CONTEXT
Department of Communication Studies	Faculty Advisor: Lisa Tafuro, Ph.D.

Board 63	
Jack, Michelle	THE ROLE OF OXIDATIVE STRESS IN AUTOIMMUNE ADDISON'S DISEASE
Department of Biology	Faculty Advisor: Francis Antonawich, Ph.D.

Board 64	
Pearsall, Jenna Crespo, Cortney Toussaint, Nadlie	THE METABOLIC ASPECTS OF CANCER
Department of Biology	Faculty Advisor: Francis Antonawich, Ph.D.

Board 65	
McSweeney, Stephen Correa, Gisellis Harrison, Victoria	EFFECTS OF INDOLE-3-CARBINOL ON VARIOUS CANCER CELLS
Department of Biology	Faculty Advisor: Valerie Giordano, Ph.D..

Paper Presentations

Room N316		Moderator: Judith Phagan, D.A.	
Roedel, Kristen		MAYBE SHE’S BORN WITH IT; MAYBE IT’S PATRIARCHY: THE BIOMEDICAL SUPPRESSION OF WOMEN IN THREE TALES OF HAWTHORNE	
Department of English		Faculty Advisor: Peter Mascuch, Ph.D.	
Nunez, Melissa		MELANCHOLY BEAUTY AND MOURNFUL REMEMBRANCE: THE FEMALE CHARACTERS OF EDGAR ALLAN POE	
Department of English		Faculty Advisor: Judith Phagan, D.A.	
Baillie, Lindsay		‘GO TUH GOD’ AND ‘FIND OUT ABOUT LIVIN’ FUH THEYSELVES’: JANIE’S DEVELOPMENT THROUGH NATURE IN THEIR EYES WERE WATCHING GOD	
Department of English		Faculty Advisor: Judith Phagan, D.A.	
Santacroce-Kahalehoe, Amanda		EXAMINING THE “WOMAN QUESTION” IN THE AWAKENING: ARE FEMININITY AND MATERNITY MUTUALLY EXCLUSIVE?	
Department of English		Faculty Advisor: Peter Mascuch, Ph.D.	

Room N319		Moderator: Vasil Skenderi, Ph.D.	
Hirdt, John		UTILIZING GRAPH THEORY TO SEE THE UNSEEN IN NUCLEAR PHYSICS DATABASES	
Department of Mathematics and Computer Science			
		Faculty Advisor: S. Jane Fritz	
Schmidt, Sara		MATHEMATICAL MODELS USING DIFFERENTIAL EQUATIONS	
Department of Mathematics and Computer Science			
		Faculty Advisor: Bogumila Lai, Ph.D.	
Giannino, Michael		COMPUTER CRIMES: THE CORRELATION BETWEEN AGE AND THE RISK OF CYBER VICTIMIZATION	
Department of Criminal Justice			
		Faculty Advisor: Elenice Oliveira, Ph.D.	
Ferguson, Daniel Fitzsimons, Colleen		DECRYPTING THE RSA ENCRYPTION ALGORITHM	
Department of Mathematics and Computer Science			
		Faculty Advisor: Vasil Skenderi, Ph.D.	

Room N323		Moderator: Kirk Lawrence, Ph.D.	
Lombardo, Jessika		THE EFFECTS OF IMF LOANS ON COUNTRIES' FREEDOM AND HAPPINESS	
Department of Sociology		Faculty Advisor: Kirk Lawrence, Ph.D.	
McAleese, Kyle Lever, Krystal		GLOBAL HISTORICAL PERSPECTIVES: AN INVESTIGATION OF CULTURAL AND HISTORICAL PERSPECTIVES THROUGH IRISH, RUSSIAN AND AMERICAN EYES	
Departments of History and Communication Studies		Faculty Advisor: Yingfan Zhang, Ph.D.	
Heffernan, Ashley		DON'T GO FILLING YOUR BRAIN WITH MINDLESS FLUFF: HOW H.G. WELLS USES SCIENCE FICTION AS AN OUTLET FOR CRITICISM ON NINETEENTH CENTURY SOCIETY	
Department of English		Faculty Advisor: Judith Phagan, D.A.	
Murphy, Cristian		APPLYING LESSONS OF LEADERSHIP THROUGH COMMUNITY SERVICE	
Department of Business Administration		Faculty Advisor: Alan Vitters, Ph.D.	

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**Photographs of the symposium will be
posted on our website**

www.sjcugresearch.wordpress.com

Advisory and Review Committee	
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Valerie Giordano, Ph.D.	Biology
Andrew Jacobs, Ph.D.	Religious Studies
Kirk Lawrence, Ph.D.	Sociology
Dawn Lee, M.F.A.	Fine Arts
Judith Phagan, D.A.	English
Stephen Rockwell, Ph.D.	Social Sciences
Vasil Skenderi, Ph.D.	Mathematics and Computer Science
Lisa Tafuro, Ph.D.	Communication Studies

Volunteers		
Nadia Farinas	Victor Cruz Portillo	Linda Marshall
Manuela Palacio	Sevgi Demirkan	Aigerim Massabayeva
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General Support	
Susan Belonzi Administrative Assistant	The Lunch Fundraiser in Support of Undergraduate Research was Generously Provided through the Crossroads Program • Our Thanks to Bryan Gill and the Office of Student Life
Kristen Leonard Work Study Assistant	
Nina Franza Work Study Assistant	
The Many People of the Physical Plant Office	



Conference Director
Teresa Tannazzo, Ph.D.
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