

THURSDAY, APRIL 21, 2022



Lewis University is proud to sponsor the Tenth Annual Celebration of Scholarship. Providing an opportunity for the University to showcase the scholarly and artistic work of its graduate students, undergraduate students, and faculty, this annual scholarly event is co-sponsored by the

Dear Colleagues,

It is my privilege to welcome everyone to the 10th Annual Celebration of Scholarship. I am pleased to be part of this important celebration that recognizes the scholarly accomplishments of the undergraduate students, graduate students, and faculty members of Lewis University. This year's theme is

This past year has been a very challenging journey for all of our students. It has posed some unique problems for our students involved in research as they have been working with their respective faculty mentors to investigate, create and present the new ideas and knowledge that you will experience as part of this year's Celebration of Scholarship. This year's Celebration will include 50 concurrent sessions, 60 poster presentations, and 8 business competitions. Additionally, artwork from the President's 14th Annual Art Competition will be on display and the winners will participate in an afternoon gallery talk. Nearly 200

Dear Colleagues:

I'm pleased to introduce Lewis University's 10th Annual Celebration of Scholarship, which highlights the research, scholarship and creative accomplishments of our students and faculty.

The Celebration brings to life our Mission values of knowledge, wisdom, justice,

academic excellence grounded in research, scholarship and creative activity that responds to the needs of society, along with a transformative student experience that emphasizes impact and experiential learning. The Celebration embodies this vision in inspiring and meaningful ways.

This year's Celebration returns to its traditional format, and looks forward in every other way, offering a new location, some new presentation formats, and of course, the innovative and original ideas of our students. Through this transition online and back over the past two years, our faculty and students have gone to incredible effort to celebrate and engage with each other in multiple ways, maintaining the health and safety of our community while also revealing the extraordinary accomplishments of our students. I'm delighted that we will continue many of the traditions, including the Dr. Stephany Schlachter Excellence in Undergraduate Scholarship Award, honoring our former provost who supported the Celebration in countless ways as it came

and one project will receive a \$2,000 award.

I'm also very pleased to welcome our keynote speaker for this event, Thomas L. Lynch IV, Ph.D., Senior Scientist at AbbVie Pharmaceutical Research & Development and biology alumnus from 2011, whose talk entitled "The Journey of Scholarship: Advancing Research Through Knowledge and Association," promises to both inspire and ground us in the values that underpin our research and scholarship.



	Associate Provost for Research and Faculty Development
OPENING PRAYER	Associate Professor, Mathematics
OPENING REMARKS	President, Lewis University
KEYNOTE ADDRESS	Senior Scientist I, Drug Metabolism and Disposition,
AUDIENCE QUESTIONS	Facilitated by Assistant Professor, Psychology; Co-Chair, 2022 Celebration of Scholarship Assistant Professor, Mathematics; Co-Chair, 2022 Celebration of Scholarship
CLOSING REMARKS	Provost, Lewis University



to a rate of 1 in every 44 children. Research has been conducted on methods to treat patients who have this disease. Diet can play a role in a person's microbiome diversity, which in return affects overall well-being. Research supports evidence of nutritional and small intestine microbial abnormalities like increased gut permeability in patients affected with autism. The gut-brain axis theory states that the brain and gut

Autistic patients have been shown to have an unbalanced microbiome that could play a role with known psychological symptoms

problems in public education in his book, Dumbing Us Down. Gatto details seven detrimental lessons all teachers teach which result in educational failure. These lessons juxtapose the principles that Thomas Mann had strived for nearly 150 years before. Gatto's lessons focus on how students are trained in public schools to be emotionally and intellectually dependent on teachers, they are taught irrelevant material, and they have no time for self-development, as they are forced to commit themselves to schoolwork both in and outside of the classroom. My work proposes a solution to these issues through a pedagogy that emphasizes and encourages student-centered learning and exploration. As a teacher, I know that I cannot singlehandedly revise the entire school system. However, I can create a curriculum which overcomes Gatto's seven lessons. This curriculum is also meant to inspire other fellow educators to counter the rigidity of modern schooling. I plan to encourage independent thinking in my classroom through student-centered activities which promote inquisitiveness and student autonomy.

So Far from

God

Undergraduate Student Project in Humanities

Within this essay, I address educators in relation to teaching Ana Castillo's novel, So Far from God, and argue for a methodology that incorporates Cooperation Learning and Technology-Enhanced Learning to foster critical thinking skills. I consider and counter the arguments of Kim Sosin and William Goffe, who have questioned

of technology with teaching. I make the case that student interaction through technology provides an essential learning tool embedded within the Cooperative and Technology-Enhanced Learning approach. These approaches intersect

enabling students to share and comment each other's thoughts, thereby enhancing critical thinking skills as they engage with their peers. I demonstrate this methodology as I present a plea

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Undergraduate Student Project in Nursing

This was a critically appraised topic article on cognitive-behavioral based physical therapy as a method of enhancing recovery from anterior cruciate ligament injuries and reconstruction surgery (ACLR). ACLR is one of the most common athletic surgeries. However, too many athletes who undergo ACLR do not return to sport. This CAT explores a method of physical therapy that has the potential to increase return to sport from ACLR and more sports injuries.

Mentor:

1651

Graduate Student Project in Nursing

Response Elaboration Training (RET) is a treatment for improving oral expression in individuals with aphasia. RET traditionally incorporates picture stimuli for sentence production. However, there is emerging evidence using other forms of stimuli such as video. The purpose of this study was to compare the effectiveness of picture stimuli versus GIF stimuli in eliciting complete sentence production in an individual with aphasia. Results indicated picture stimuli elicited more accurate sentence production when compared to GIF.

Mentor:

1642

Undergraduate Student Project in Nursing

This critically appraised topic paper focused on treatment methods for blood glucose stabilization in middle-aged patients with pre-diabetes. Five studies were chosen using the CINAHL database to help answer the PICO question: "In middle-aged people with pre-diabetes, is diet or Td [(ds88 0 I S Q q 6ti3e02443 /P &Lang 8P &Lang (enc)19(ole)]TJ3e02443237 -lang

Undergraduate Student Project in Humanities

This project is a combination of two components: a paper of original research on the concept of plagiarism and its administration in educational institutions, and a set of published document guides for the Lewis University Writing Center.

students, and the second is a guide for International students.

In my paper, I argue that the way that

punished in U.S. colleges and universities must be changed. From two different points of view, a traditional college student and an international student, arguments can be made for how a student from any background can be better assisted in understanding the importance of plagiarism in the writing process. At the university level, policies must be changed to

others' ideas is often a part of the writing process, but if standards are in place they must be followed. Universities and their faculty must assist students in a successful understanding of what plagiarism is, how to avoid it, and how to correctly use secondary sources for an academic paper. At the level of a writing center tutor, often this is a student's only outlet for understanding and assistance in combating plagiarism. U.S. universities also need to develop an awareness and understanding of students from international backgrounds, their cultural writing process, and how to set these students up for success in writing

of my research and the resulting guides published for student use.

Mentor:

Graduate Student Project in Nursing

The purpose of our study was to use Discrete Trial Training (DTT) when teaching identifying information to young adults with Autism Spectrum Disorder (ASD) in order to improve safety precautions and self-advocacy. Typical manifestations of ASD, such as impulsive behavior or failure to respond, may be misunderstood by law enforcement professionals, with serious

Undergraduate Student

Dr. Jason Keleher

PrimePulse, LLC involves an improved way of combining and integrating solar energy with mobile devices and, eventually, technology in general. In a world where technology is advancing

alternative energy sources for power are imperative for the future.

Undergraduate Student

James Hofmann

My product and services are creating an automated greenhouse with Wi-Fi integration. The customer's need for it is to simplify and make the plant growing process easier. The uniqueness of my product is allowing for complete integration of 01D8 \$685M39n < althaes an auto5(entua(ciilab0(vcata a)8 \$6d f)9(oror let)1mak)21iTJ



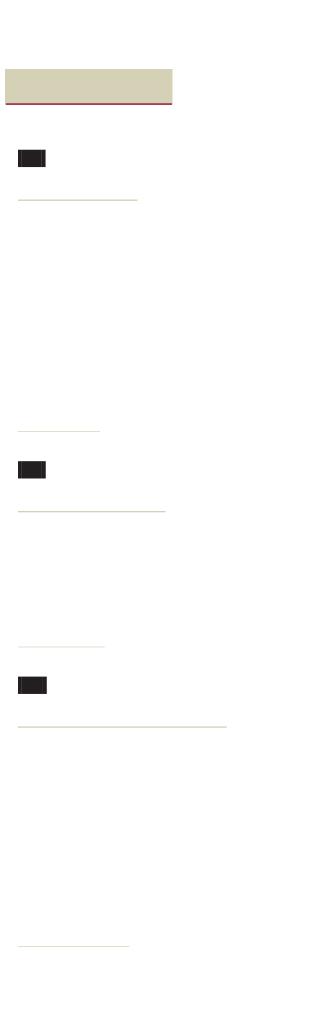
Undergraduate Student Project in Math & Science

plausible small molecule inhibitors of the enzyme histone deacetylase for the purpose of preventing DNA condensing around histone groups that can lead to transcription errors, that could subsequently lead to cancerous mutations.

Mentor:

31

Undergraduate Student Project in Math & Science



Undergraduate Student Project in Social Sciences

The transition to university life affords many positive opportunities but stressors and pressures can also increase vulnerability toward psychological distress. High levels of mental wellbeing seem to buffer against this vulnerability and prosocial behaviors, like performing deliberate acts of kindness,

intervention for increasing wellbeing. Little work has attempted to examine the



Undergraduate Student Project in Math & Science

health of ecosystems since populations

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Graduate Student Project in Social Sciences

The study aims to build upon our understanding of factors that lead to overdose, and how it will impact those at risk during the pandemic.

Mentor:

24

Alumnus Project in Social Sciences

There are many different therapies and programs, represented across the state and country, to treat mental illnesses in corrections. Cognitive behavioral therapy, re-entry programs, and art therapy are just a few that have had positive effects on decreasing the symptoms of those with depression and other illnesses.

Mentor:

27

Graduate Student Project in Social Sciences

There is limited research on occupational therapy (OT) interventions that target both developmental and psychological diagnoses in the young adult population. This research provides OTs with information and evidence on effectiveness of role playing interventions in a group setting with peers compared to Cognitive Behavioral Therapy (CBT) as an individual treatment for improving social participation skills needed for community integration in young adults with Autism and comorbid mental illness such as depression and anxiety.

Mentor:

Graduate Student Project in Social Sciences

(ADHD) can have a severe impact on a child's ability to learn and engage within the classroom. The purpose of this presentation is to discuss evidence regarding the effectiveness of cognitive behavioral therapy versus sensory integration therapy for children with ADHD within the classroom to improve their school performance.

Mentor:

51

Graduate Student Project in Social Sciences

The goal of this study was to gain perspective of lived-experience and increase awareness of oppression and ableism through interviewing an African-American woman living with traumatic brain injury (TBI) and chronic pain resulting from a serious car accident. A literature review using Pharr's Common Elements of Oppression was completed. Findings using narrative analysis and thematic coding produced practical implications for social work practice and education.

Mentor:

54

Graduate Student Project in Nursing

This study involves a kindergarten male who exhibits inconsistent speech sound errors and the effectiveness of the Core Word Vocabulary approach on treating inconsistent speech sound disorder. Its main objective is for the client to produce target words consistently over multiple trials, with or without misarticulations present. Most literature and research regarding this approach is dated and this study updates the procedures and results that were obtained during the implementation of this treatment approach.

Mentor:

57

Graduate Student Project in Nursing

This study investigated how the cycles approach and minimal pair approach can be used in therapy to decrease phonological processes present and increase speech intelligibility in those who present with a phonological processing disorder. A single-subject alternating treatment study was conducted on a participant who presented with the phonological processes of weak syllable deletion, gliding of the /l/ phoneme, and gliding of the /ɹ/ phoneme. Results concluded that, when paired together, the cycles approach and the minimal pairs

the phonological process of gliding of the phonemes /l/ and /ɹ/ and increased overall speech intelligibility.

Mentor:



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