



Eighth Annual Undergraduate Research Symposium Addendum

ADDITIONS:

Faculty and Graduate Student Moderators:

Dr. Maria Holmes, Clinton Morrison, Lauren Sommer, and Dr. Gene Young

Oral-Media Sessions

A.5: Psychology and Education Abstracts

College Students' Perspectives on Children and Youth with Emotional Behavior Disorders in Special Education

Alfred Loera

There are many problems with standard ways in which people who have emotional disorders are labeled, such as "Emotionally Disturbed," "Seriously Emotionally Disturbed" and "Emotional and/or Behavioral Disorder." The federal definition as promoted by the Individuals with Disabilities Education Act (IDEA) of Emotional and Behavior Disorders (EBD) leads to much confusion as to what exactly qualifies children and youth to have this disability. Overall the EBD label is highly controversial among professionals and so can be expected to be in the general public as well. What do college students believe about this disability? A survey is being used to show what perceptions and conceptions university students have about Emotional Behavioral Disorders. The survey attempts to look at perceptions based on five clusters: attitudes, identification, causes, placement, and outlook.

Neurocircuit and the Improvement of the Treatment of Mental Illness

Iman McDonald

The purpose of this research is to examine the potential of "Neurocircuit," a research initiative that aims to improve treatment of mental illness by pairing trans-cranial magnetic stimulation with other technology to stimulate specific circuits in the brain. First, this research examines the current uses of trans-cranial magnetic stimulation. We identify the strengths and weaknesses of the technology in treating various mental disorders. We then look at the initiative "Neurocircuit" and how it plans to improve the use of TMS, and pair TMS with other technology to help map the relationships between brain circuits. Current treatments, such as medication, affect the entire brain and are susceptible to wayward side effects. "Neurocircuit" aims to be more precise and noninvasive with the treatment of mental disorders.

CHANGES:

Oral-Media

A.1

Rare Earth Elements in China (New Project)

Gabrielle Ransom

The purpose of this research is to analyze the abundance of rare earth elements in specific regions of China, and study the geologic processes involved in the formation of rare earth elements. In addition, this research will examine and analyze common practices in mining rare earth elements. By understanding the role that rare earth elements play in the global economy, this research will analyze the impact that obtaining these metals could have.

C.2 and C.3: COMBINED SESSION: Room 210

Quantitative Study of Na⁺ and/or Cl⁻ doped LiFePO₄ as a Cathode Material for Li-Ion Batteries

Michael Semmlinger-pg. 35

Optimization of Collider Data Selection Cuts

Jesse Cantu-pg. 27 and Trent Voth-pg. 37

Correlation between Host Nitrogen Access and GC Content in Parasitic Plants

Kenneth Nobleza-pg. 33

POSTERS

Elements of Implementing Safety Culture (Additional Presenter)

Melissa Spencer and Steve York

CANCELATIONS:

Resilience and Family Functioning: How Families Cope with Mental Illness

Samantha Reed

The Relevance of Cultural Relativism

Allison Parry

The Medicinal Effect of Plant Extracts on *Xenopus laevis* Embryos

Elijah Hodges

SPELLING CORRECTION:

Faculty Moderator: Dr. Sunny Yung

