Pace University: Society of Fellows

41st Annual Meeting
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New York City

Photo credit: Adam Mansur
Visual Pleasure

“Woman’s desire is subjected to her image as bearer of the bleeding wound, she can exist only in relation to execution and transcend it.”

(Love)

want to make movies out of blood, sperm and tears,
Qualitative Analysis of Various Chemicals by Using Gas Chromatography-Mass Spectrometry (GC-MS)

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Abstract:
A new conventional method is analyzed whether proper favorable for the purification of various chemicals. The method is found to be efficient and economically viable for the production of high-quality chemical compounds. The method is characterized by its simplicity and the ability to produce purer chemicals with higher yields.

Experiment 1: Sensitivity Test

Problem: To test the sensitivity of the GC-MS.

Method: An unknown sample is injected into the GC-MS. The sensitivity of the instrument is determined by measuring the peak areas for different concentrations of the sample.

Result: The sensitivity of the GC-MS is found to be high, with a detection limit of 1 ppm.

Experiment 2: Naphthalene Acid

Problem: To analyze the presence of naphthalene acid in a sample.

Method: A standard solution of naphthalene acid is prepared and used as a reference. The sample is then analyzed using GC-MS.

Result: The presence of naphthalene acid is confirmed in the sample.

Experiment 3: Dilution Test (Limonene)

Problem: To determine the dilution limit of limonene.

Method: A series of dilutions of limonene are prepared, and their GC-MS spectra are recorded. The dilution limit is determined by the point at which the spectrum is no longer distinguishable from the baseline.

Result: The dilution limit of limonene is found to be 1:1000.

Experiment 4: Analysis of a Mixture of Methylated Fatty Acids (37 FAME)

Problem: To analyze a mixture of methylated fatty acids.

Method: The mixture is analyzed using GC-MS. The peaks corresponding to each fatty acid are identified, and their areas are calculated.

Result: The areas of the peaks are found to be in agreement with the expected values, confirming the successful separation and identification of the fatty acids.

Conclusion and Future Application
Gas Chromatography-Mass Spectrometry (GC-MS) is a very powerful instrument for both qualitative and quantitative analysis of various samples. Due to its sensitivity, it allows for the detection of minute amounts of compounds. Further studies will enable more precise quantitation of these compounds.
The Atlanta Campaign
- The Union offensive campaign to capture the city of Atlanta
- Captured on September 3, 1864
- “...[the destruction] of all depots, car-houses, shops, factories, foundries...etc.”

The March
- Began in early November 1864
- Separated into 2 flanks to ensure that they created as much damage as possible while still capturing the state capital
- Sherman used psychological warfare against Southern civilians

Savannah
References


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Purpose of Research

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**Introduction**

- Over 106,000 people are on the waitlist to receive an organ transplant (OPTN, 2021).
- United States currently operates on an altruistic, opt-in policy (Glazier and Mone, 2019).
- Common misconceptions prevent college students from signing-up.

**Research question:** Can nudge theory increase the enrollment rates of college students becoming organ donors?

**Behavioral Economics:** theory of economic decision-making.

**Nudge theory:** indirect suggestions that promote positive decision-making.
Nudge design

- Created a three-minute video to treatment group
- Addressed the organ shortage, general statistics, common misconceptions, and ways to register
- Targeted information on the transplant process and ways to register as a donor
- Gainframe, positive messaging (Redhead et al., 2017)
- Avoided using the word "you"
- Included a Pare student's quote who received a tissue transplant

Nudge design

- Created a
- Addressed
- Targeted
- Information
- Gainframe
- Positive
- Avoided
- Included
Wondering why this isn't a focus?

- Budget and funding resources
- High-inflation rates
- Millennials, for the most part, haven't had kids yet, and student debt is a bigger issue for them.
- Also, those who have had kids, once that chapter is over, it's over, and most people don't look back.