DISCOVER UOFSC

Tips for Successful Posters



What do we mean by **Poster Session?**





NOT this...

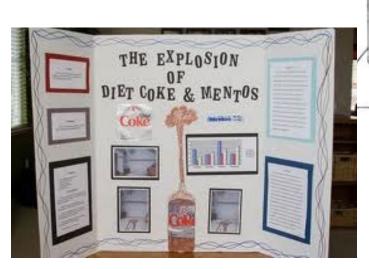
REPORT

FIODEL

PROJECT TITLE

ABSTRACT



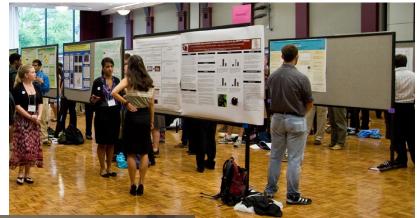






But THIS...





TAKE



UNIVERSITY OF



See it for yourself:

These videos and articles are from Discovery Day, which transformed into **Discover UofSC** in 2017 – bigger & better but at its heart, still the same ☺

<u>123</u>



DISCOVER UOFSC



Review presenter guidance at

Discover USC

(sc.edu/DiscoverUofSC)



Event date and schedule

https://sc.edu/about/signature_events/discover_uofsc/schedule/index.php



- Posters are the primary form of presentation
- Notification on timing/format: early April by email
- Find your presentation format, time and room location on <u>webpage</u> under "<u>Find a Presenter</u>" (NOTE: this will not be active until early April!)
- Know your poster number; signs will be posted in hall to direct you



- 2 posters per side of display board
- Poster dimensions:
 - Max: 4 ft high x 3.5 ft wide
 - Min for GLD: 2 ft x 3 ft (vertical or horizontal; <u>templates on</u> <u>GLD website</u>)
- 4 t-pins provided to hang
- Angle pins DOWN not straight through
- Nametags at registration; Bring Carolina Card



- Posters sub-divided into categories
- Categories based on topic/mentor department
- Judged within categories (IF selected yes on abstract submission; can only change to NO)



- Judging guidelines on webpage and guidance
- Judges: faculty, staff, and grad students
- Judges: 2-3 per section
- Judges are NOT experts in field

ROLINA

• No judging if NOT present at poster

- Awards:
 - Will be listed on the <u>Discover UofSC</u> website the <u>Wednesday</u> after the event
- Award certificates:
 - Emailed as a PDF attachment to each awardee by the *end of May*



How To: General Overview



A successful poster...

- conveys a clear message,
- by high-impact visual information,
- with minimum text

...grabs attention!



A great poster is...

- Readable use clear language and good grammar in all poster text
- Legible all poster text should be readable from 5 feet away
- Well-organized group items logically and visually for maximum impact
- Succinct you have 10 seconds to grab your audience's attention



Remember: Do **NOT** duplicate the full text of your work **on** your poster.

Hit the high points!

Provide handouts for more information.



Overview: Content - OPTION 1

Sections you may wish to include: (will vary depending on your desired message)

- Introduction, background, or overview
- Hypothesis (Question you explored)
- Motivation or purpose (Why you did it)
- Methods (How you did it)
- Results (What you found)
- Conclusions (What you learned)
- Significance (What it means)
- Future plans or next steps
- References (Works cited)
- Acknowledgements



Overview: Content - Option 2

Sections you may wish to include: (will vary depending on your desired message)

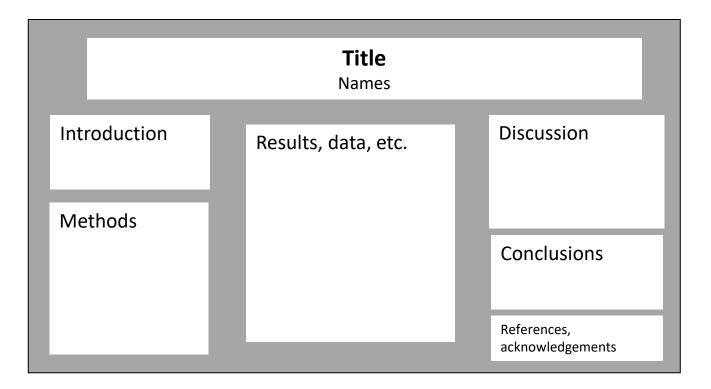
- Introduction, background, or overview
- Activity/Event description (What you did)
- Motivation or purpose (Why you did it)
- Reflection (What you learned; What was the impact on you)
- Significance (What it means; what you want others to learn/know from your experience)
- Future plans or next steps
- References (Works cited)
- Acknowledgements



People take in information according to a known spatial sequence.

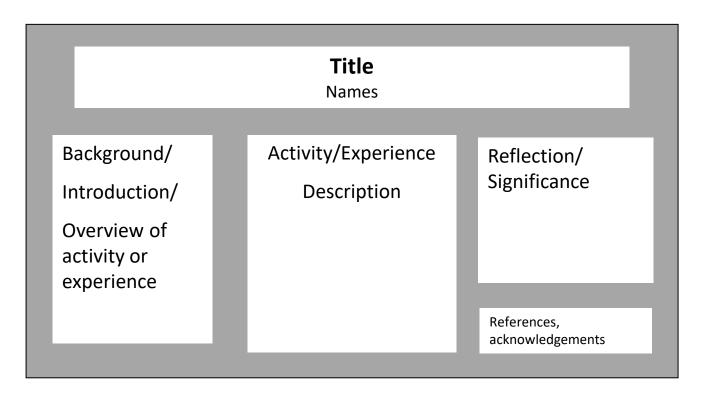
Capitalize on this and use it effectively!

Expected layout (3-4 columns of information):



Activity or Experience

Expected layout (3-4 columns of information):



Alternative layout: Progression of information (*less common*)

	T itle ames
Introduction and Background	
Results, Findings, data, etc.	
Discussion and Conclusions	
References	Acknowledgements

Activity or Experience

	Title ames			
Background/Introduction/Over	rview of activity or experience			
Activity/Event Description (what did you do)				
Reflection/Significance				
References	Acknowledgements			

Overview: Layout **YES!!!**

You can use a different format than "expected."

- > The key is to make the flow of information logical.
- Be sure your chosen layout emphasizes your message!

See examples in the next section



How To:

Examples



📈 "Expected" layout

Title

Names, departments

Introduction: Chemical Hydride Hydrolysis

Chemical hydrides are a means of storing hydrogen. ·Sodium borohydride (NaBH₄) undergoes hydrolysis to produce hydrogen as follows:

NaBH, + (2+x) H₂O → NaBO₂-xH₂O + 4H₂

+The coefficient x represents the hydration state of sodium metaborate (NaBO₂).

Minimizing x minimizes the total weight in the hydrogen delivery system while maximizing the efficiency.

 Four stable hydration states exist and the formation of these states is temperature dependent and shown below:

Hydration State	Temperatures Where Stable <54 °C		
Tetrahydrate (x=4)			
Dihydrate (x=2)	54 °C-110 °C		
1/3-hydrate (x=1/3)	110 °C-350 °C		
Anhydrous (x=0)	>350 °C		

Water Usage and Reaction Pathway

+First attempted to hydrolyze sodium borohydride with liquid water. Required approximately 30 times more water than stoichiometric feed. •Experimental conditions were limited to below 100°C, yielding low reaction rates.

 Experimental temperature range increased with steam hydrolysis reactor. Steam would adhere, or deliquesce, to the surface of sodium borohydride. •Expanded temperatures to over 140°C.

·Low relative humidities prevent reaction at high temperature conditions.

Deliquescence

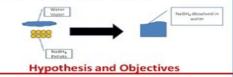
Sodium Borohydride undergoes deliquescence in the presence of water vapo Deliguescence is the process of water vapor in the air adhering to the surface of a solid.

·Water vapor goes to the liquid phase while in contact with the solid during deliguescence

 Deliquescence usually ends with too much water surrounding the solid, in which case the water will dissolve the solid.

Water vapor uses as little as 10% of the liquid water needed to pre-dissolve the NaBH,

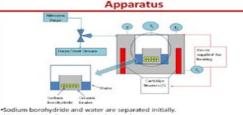
As less water is needed to dissolve the NaBH, the necessary weight of the reactor lessens which, in turn, increases the efficiency.



. Construct and utilize a high pressure batch reactor to hydrolyze solid sodium borohydride with water vapor.

 Predict the reaction progress as a function of time using the pressure profile Determine the amount of NaBH, conversion using Boron11-Nuclear Magnetic Resonance (B¹¹-NMR)

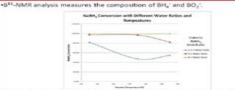
Determine the water content of the final product using Thermogravimetric Analysis (TGA).



Nitrogen originally pressurizes the bomb reactor.

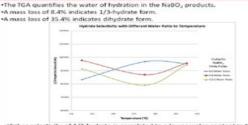
·Heat is supplied to the reactor using six cartridge heaters. •Thermocouples measure three temperatures at different points to ensure gradient. Pressure measurements were recorded by a pressure transducer.

NaBH4 Conversion Measured with B¹¹-NMR



 Hydrolysis goes to completion when a slight excess of water is introduced to the system. Reactions running only the stochiometric water feed had approximately 50% conversion. Higher temperatures generate a faster reaction but at the cost of lower conversions.

Water Content of Product Measured by TGA

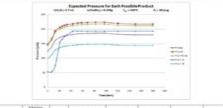


 Higher selectivity of 1/3-hydrate is correlated to a lower water content in the final product

 TGA analysis suggests that the mass lost lies somewhere between 8.4% and 35.4%. consistent with the idea that a mixture of 1/3-hydrate and dihydrate would be formed. •Runs with higher feeds of water favored the formation of the 1/3-hydrate form. At lower temperatures, 1/3-hydrate selectivity decreases with the water ratio. The effect of water to NaBH, feed ratio is minimal at higher pressures.

Pressure Profile

·Experimental pressures were recorded using a pressure transducer. One expected pressures can be calculated for each of the four possible hydration states of NaBO2. Expected pressures were calculated with the Redlich-Kwong equation of state.



Temperature [%]	Molar Ratio of Water to NaBH,	×	Highest Experimental Pressure (psia)	Theoretical Pressure (psia) = 0	Theoretical Pressure (psia) x = .33	Theoretical Pressure (pska) x = 2	Theoretical Pressure (psis) x = 4
150	6.3	- 4	162.0	222.3	215.9	184.2	144.0
150	4.3	2	364.0	185.9	282.4	149.1	\$20.5
150	2.5.1	0.5	203.0	155.9	349.2	115.1	92.7
380	6.3	4	192.7	238.8	231.9	197.0	154.8
380	6:3	4	172.7	243.8	236.8	201.4	158.2
180	4.1	2	164.7	205.6	298.5	162.6	131.6
180	6.3	2	188.7	206.0	296.9	161.2	\$10.4
380	254	0.5	. 86.7	268.7	261.5	125.1	106.5
380	2.5:1	0.5	74.7	367.5	260.3	124.3	105-8
200	6:3	4	197.7	249.3	242.3	206-2	161.2
200	4.3	2	345.0	212.0	204.6	167.2	135.1
200	2.5:1	0.5	115.0	173.9	268.4	128.2	\$09.0

•From TGA, it is expected that the actual pressure will be between the 1/3hydrate and dihydrate estimations

•Few experiments had a pressure profile precise enough to give expected pressures

Conclusions

The batch reactor was successful in that the steam hydrolysis reaction went nearly to competition for runs with only a slight increase of water over the stoichiometric ratio.

A stable 1/3 hydrate form of sodium metaborate was produced under the reaction conditions, significantly reducing the amount of water tied into the olid product.

 The decreased water in the solid product increases the efficiency of hydrogen delivery

The stable hydration states did not appear to change with pressure.

Although the pressure measurements were not as precise as desired, new eactor designs are being examined to address any potential problems.

Acknowledgements

•NSF Grant # CBET 0756089 University of South Carolina Magellan Scholarship

References

- Liu, Hong, Boyd, Christopher M.; Beaird, Amy M.; and Matthews, Michael A. "Vapor phase batch hydrolysi of NaEH, at elevated temperature and pressure." International Journal of Hydrogen Energy, February 2011
- 2011. Tero Alfonso, E.Y.; Gray, J.K.; Davis, T.A.; and Matthews, M. A. "Hydrolysis of sodium bor 14.
- Hornardov, L., Vannay, K., Salma, L.A., Madanardovan, K.A., Happerprova (2014) 2014 (2014) 1717-1712 and here hydrates." <u>International Journal of Mathematic Mechanics</u>, 2004 (2014) 2017, 321 (2014) 1717-1712 (2014) 1717 M.; Davis, Thomas A. and Mathemas, Michael, A., "Delliquescience in the Hydrolysis of St Biordryshife by Webre Vacous." <u>Industributional of Internet Chemistry Research</u>, 2010, 49 (2019) 2014. ...

"Expected" layout

Program. No. 611.7



Expression of Lipocalin-2 in Colorectal Cancer Metastasis to the Liver



Student name; Mentor name

ASBMB UAN at USC "Department of Biological Sciences, "Center for Colon Cancer Research, University of South Carolina, Columbia, SC 29209

ABSTRACT

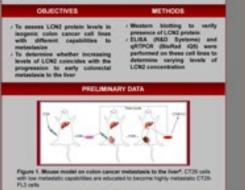
Metastasis, frequently from the color to the liver, is the major cause of death with colorectal cancer, reducing the five-year survival to less than 12%." Metwotesis occurs due to productive collaborations between tumor cells and host-derived cells in the tumor microenvironment, where a pre-metastatic miche is created to prime for cancer cell invasion into the target organ?. In a highly metastatic colorectal cancer cell line implanted into the cecum of Bathly mice, microarray analysis showed LCN2 is the most highly expressed protein in the liver of lamor-bearing miss prior to metastastic. Western blot analysis and examination of blood serum by ELISA illustrated increased levels of LCN2 as tumors progressed into netastasis, with similar results when RT-PCR was performed, as preater levels of LCN2 mRNA were found in highly metaetotic cells in contrast to less metaetotic cells. It has been found that LCN2 is highly associated with the promotion of colorectal cancer metastasis to the liver, with increased levels connected to the advancement of metastatic progression.

INTRODUCTION

Coloracial cancer is the third most common cancer, accounting for approximately 650,000 deaths per year worldwide*. In the United States, it is the second leading cause of cancer-related flatalities*. When patients are treated for colorectal cancer prior to metastasis, the survival rate is high. Unfortunately, those effected do not typically express outward symptoms of metastasis and it is often diagnosed when very little can be done. Wore research must be pursued on the biological and molecular halfmarks that direct the sarty stages of metastasis, which can provide the best opportunity for therapy to Mock its progression. Lipocatin-2 (LCN2) is from a family of proteins associated with cell regulation, specifically in differentiation and proliferation*. There is conflicting evidence on their role in cancersus growth; some evidence suggests that lipocalins can inhibit the proliferation of cancer cells*, while others suggest that they promote its progression*. These studies examined LCN2 expression in cancer cells, but not in the target organ microenvironment; thus, further studies must be undertainen to della mine the role of LCN2 in establishing and promoting metastasis.

HIPOTHESIS

increasing presence of LCN2 is positively associated with progression of sarly colorectal cancer metastasis to the liver.



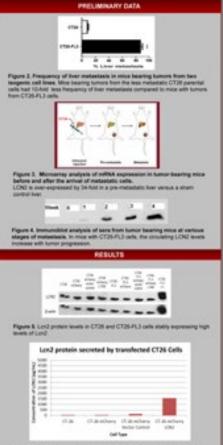
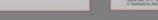


Figure 8. Lot2 protein levels secreted into the media by over-expressing cells.



Lon2 protein secreted by transfected CT26-FL3 Cells. 121212121212 _ 12,000,0 12,000,000 12.00 0.4 (Tanh) scherty schertylistic scherty (24) Cambral And here Figure 7. Concentration of Lon2 (pg/mL) secreted by stably transfected CT26-FL3 cell lines. LCN2 Expression Levels in CT26 **Derived Cell Lines** ---statis class cars Figure 8. Relative levels of mRNA transcripts in CT26 derivative cell times using real time PCR against B-actin CONCLUSIONS AND FUTURE DIRECTIONS / LCN2 is positively associated with colon cancer cells with greater ability to metastasize. LCN2 is upregulated in the pre-metastatic niche after implantation of colon cells shown by real time PCR. The impact of manipulating LCN2 levels both by gene

RESULTS

- suppression and overexpression in vitro, and especially in vivo, must be assessed to additionally determine the role of LCN2 in early colorectal cancer metastasis to the liver.
- The results of this further experimentation may provide significant support for the possibility that LCN2 is a biomarker for the event of metastasis to the liver.

REFERENCES

[1] S. L. Conger and Announces, "Annual Local Annual Methods," In Construction, Vol. 2010, Nature 2010, "Annual Annual Annual

- A Column Taxas Indian Taxana Inggome II. Street

"Expected" layout

Impacting Communities, Changing Lives: Diabetes Education in Columbia, SC

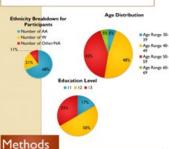
Student name, Senior, Department of Anthropology

Free Clinic of Columbia, SC

Mentors: Names

Background

Diabetes is currently ranked 7th in terms of leading cause of death of most South Carolinians [2], In addition to poor overall health in South Carolina, it makes sense that health education is not as heavily promoted in the state as it should be When the bases to be a set of the previous of the set of the set of a based be vrease in contrastance with hyperpresence of access is a received in strong as the the risk expected of Search Caroliname to the growing splatemic. This is executioned in the advantaged commission where a number provide public set. Set of the contrastance of electric set of the content of the set of To be preserved that again or to them 1.1 mm introduces in comparison to the stock that 2025, of night photol students will find organization with a high school adjoines as a result of mixed factors [1]. With such unsurprising statistics (South Carolina is currently 47° in the resion in terms of quality public education [2].it makes sense that such trends in terms of health education are also as low and unfinded.

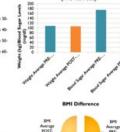


Acquiring Potient Information (Pre-meter levels): Before patients enter the program, they must sign a waiver in order for their health information to be used. Their health information will be used for the purposes of quantifying the impact of this project on the Columbia community. This must be done in accordance with HIRAA law as information is considered case-sensitive.

Course Regiment The course took place once a week on Fridays at IPM.A total of two classes were taught in regards to the disease and meal management. Each patient will be required to sign in before the commencement of the class and be given pamphilets at the conclusion of each class. After the condusion of the patient's second class, the patient will be rewarded with a glucose meter and testing strips. Patient files were examined to indicate which patients were able to return for a follow-up with their appropriate biophysical assessments recorded. This will allow up to track the changes patients that participated in the education programs. All information will be recorded in a notebook and electronically. This will be staggened as patient intake is tracked.

How Physical Health Was Affected Blood Pressure Blood Sugar Blacks 132.86 186.94 33.72 111/71 200.36 131/77 255 120/80 120 Normal Range led as Hispanic Weight and Blood Sugar Averages (Pre vs. Post)

Results



Average PRE-58559ON 41.7822

Differences in Wellness Markers Weight Difference Blood Sugar Difference Blood Pressure S Difference Blood Pressure D Difference · BM Difference



Based on our results, we can effectively see the nee d of this program in the community. The data illustrates correlations in ethnicity and in education levels with behaviors and physical ill program is the community the data insurance constations in ethnicity and in education levels who behaviors and physical illness Physicens with promotion through the clinic and the restrictions regards to assessments of patients where the sessions also prevented us from pathering a true picture of Another confounding spect of our project showed that individuals were none confident after the session yet all did not after their behavior enough to show any significant changes. Whys to impr the project consist of monitoring the program over a longer length of time and analyzing different educational models for ucting patients.

How Were Behaviors Affected?

None Less 30-60 1-3 more

min/wk

Conclusions

than 30 min/wk hrs/wk than 3

histed

ment of Overall Health/Worry Levels

0.9

0.8

0.7

204

₿o.s

20.4

6.7

15

2.5

0.5

403

32.45

45.72

18.5.24.9

Frequency of Time Spent on Exercise

Stretching or

Strengthe

Swimming or aquati

· Walking

exercise

· Bicycling

exercise Other aerobie

· Governi Health

• We your health a worry your life

Were you investaged it

· Fearful about future heal

· Other aerobi

Acknowledgements

Special sharks to the Carolina Lasterrije Initiative for the grant that allowed for the conduction of the project. I would also lise to have the "Tree Chick of Calantina, SC for allowing my stall and multiple multiple shares Chickelon & project. Haved also lise to shark my team constance of Suphame Chickelon & halp halds. My Ref. Chick. Hales Concur. Curritura Neuro. Lances de Miller Hanses, and Krome Haller. In solid also lise to protochly share Drus Share of Charup to The concurred sectors Miller Unight The Sympo-the Charup to The concurred sectors Miller Unight The Sympo-

Role of P-glycoprotein in the Transport of Amyloid-B Protein in Cerebral Amyloid Angiopathy

University of South Carolina, Biomedical Engineering Program, Columbia, SC 29208

ABSTRACT

anytel argopathy (CAR), a sentimentalic depositor of the Eventian form of anytoing (ADI-R) papties, is a well-income these stoke that on save prevelute beets in the editripatients, Vessiar accumulation of the familar form version At accordation. However, it remains and of As from the local parenthesis to the the Massi-Iran server 2000 is repeated to facilitate Polycopreter (Pol), an ATheor transporter, interact-rescale and machine ther extraor from the loss to as Smooth, Poly could be expended to the effec-ant serve AL is a losser, or other subdeter for their stream that Pay is noticed in the transport of Av the BDS. This hypothesis will be sensed to identifying status) transported from the bascaterial to the apoint consistent and confirming a role for Figs in this self darfy how according works an article at sun. A/2-C assently statute has an call to the spical side of the end ne aduly of Pp to quelly local parameters feats a vie for Pp in the tangent of A12-62 spregulation and introduct of Pigs. Exception of the call that are harquefied drivingly the BBB as well as the In this prices will provide implicities the elementation of AC from The protocological provides process has the patiential is startedly a star for the development of GAL and provide a world alogoratic

METHODOLOGY



RESULTS







4. Over expression of Page in HERVEC manufactures



DISCUSSION

fail monologer that can be used as a model of the much patients. This model can be utilized to study it as period ampleid anglegathy.

VEC monoingers were formed after 5-7 days, where the cells showed at see in TEER values, expression of tight perceive posterior (20-1 and dec), and diffusion of PTE-454 at the expected range.

mission did not show sepression of a sectio, only find in amount

ed higher anyonesises of Page than WARDC and play

All ministers and All manamer are being hamp

ment of membranes with AD ministers causes a significant rate

restment of and shelled cells with givianula causes an aver-

FUTURE WORK

and Ab Fibril as possible substrate. Test 1b different species in talk that of

No. 10 48

Analysis associate to



🔀 "Expected" layouts with height greater than width

Abstract

on of amyloid plaques within the cerebr Einschübe führlihar amyleid- β protein (1AB) aggregates, is a pathological feature in 32-3% of Albeimer's disease (AD) braim. Polyphenols such as resveratrol, myricetin and uercetin, have been considered promising in disease modifying therapy for AD as they ce capable of Inhibiting formation o 1AB or diseasociating preformed 1AB. In this study, ited the effects of a new group of polyphenols – apigenin, luteolin, $3/4^{-1}$ oxyflavone, and $5,7,3^{1},4^{1},5^{1}$ -pentahydroxyflavone – on fA β dissociation.

Thioflavin T (ThT) is a fluorescent dye that gives a characteristic fluorescent ion and excitation when attached solely to the cross β -sheet conformation of (A), posed to A β monomers, dimers, or oligomers. Therefore, fluorescence changes are used to detect changes in A β morphology upon the addition of polyphenols. A cand drop of ThT fluorescence, not consistent with the stable structure of (A β , was ficient drop of ThT fluorescence, not consistent with the stable structure of FAB, was received in the presence of polyphends. Nowever, further testing by our is bit hrough *Lar* dicknownism (CD) and transmission electron miscroscope (TRM) imaging showed *K*_0 was actually of statesociated by these polyphends. These results suggest that phends do not actually disassociate (AB, bud do bind them. This binding action of phends may have implication in disructing RAB fluoridue callular damage in the AD phends may have implications in disructing RAB fluoridue callular damage in the AD phends may have implications in disructing RAB fluoridue callular damage in the AD manual damage.



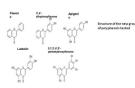


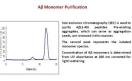












University of South Carolina, Columbia, SC

AB Fibril Preparation

Title

Names, departments

isolated monomeric A β (1-40) was incubated with 150 mM NaCl at 25°C and then agitated on a vortex at 500 rpm to promote assembly. fA β was isolated by centrifugation.

AB Fibril Measurement

Thioflavin T (ThT) fluorescence was used to monitor the quantity of anyloid material ThT binds the β -sheet structure of anyloid fibrils, giving a characteristic shifter ion. rrect fluorescence changes caused by the inner filte

incular Dichroism (CD) is used to measure 8-sheet structure of

ope (TEM) Imaging is used t

procal plots of ThT concentration and corrects a for different polyphenol concentrations at flow

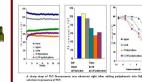
1/Fc=Km/Fmax*1/[ThT]+1/Fmax ere Km is the apparent binding constant, Fmax is the viewm ThT Fluorescano

Aβ Fibril Disassociation Assay

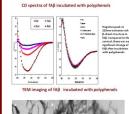
fAB were diuted to 20uM in 40mM Tris with 150mM NaCl in presence or absence of 200 uM polyphenol. Reaction solutions were incubated without agitation at room temperature for at least 2 hours. Then samples were tested for ThT fluorescence, CD and TAM.

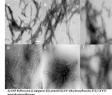
Results

ThT fluorescence change by adding polyphenols

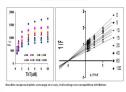


+ fo 1 fc M •kelk: 0 3 4 8 8 9 10 19 Webdowkee 14 polyphenols overlaps ThT working wavelength range. But the





Double-reciprocal plots of ThT concentration and ected fl



Conclusions

 The inner filter effect alone does not explain the large amount of fluorescen Based on CD and TEM imaging evidence, polyphenols do not disassi

Double-reciprocal plots of ThT concentration and corrected fluorescence indicate that polyphenois and ThT may noncompetitively bind to fAβ.

Future Work

 Screen these polyphenois in protofibril elongation and association mechanisms to determine if binding effect other aggregation mechanisms. Determine whether polyphenol binding to fAß can alter cell responses elicited by Aß.

Acknowledgements

•	Dr. Moss Research Group
•	NSF CAREER Award (BES-0644826) to MAM
•	Magellan Scholar Undergraduate Research Award
•	South Carolina Undergraduate Research Funding (SURF) through the South Carolina Honors College
5	

Marketing Health: Communication about the Right Choice, Fresh Start Farmers' Market among Low-income Customers

Names

Background

- · The Right Choice Fresh Start (RCPS) Farmers' Market at Family Health Center was established to increase availability of healthy produce and provide economic
- opportunity for small-scale farmers in Grangeburg, SC (3). In 2012, RCPS introduced a food assistance matching program. titled "Shop N Save" (SNS) to increase the use of federal food assistance at the market.
- RCFS and SNS were advertised through fiyers, signs at the market, newspape
- advertisements, and six outreach events in Orangeburg.
- The purpose of this study is to identify who participated in the "Shop N' Save" program and how they heard about the RCFS market.
- isatching programs can help address economic barriers associated with farmers' markets (2). Knowing how participants receive information about the market is key to engaging customers with food assistance and sustaining a matching program.

Shop N Save Intervention

- The market was open one day per week (Friday) for four hours per day for 20 weeks (June through October, 2012) at the health center site in Grangeburg.
- RCPS is authorized to accept SNAP/EBT, and most vendors at the market were
- authorized to accept Women, Infants, and Children Program (WIC) as well as Senior and WC Farmers' Market Nutrition Program (FMNP) vouchers.
- Customers enroll in the SMS program after making a purchase of 55 or more with their own food assistance (SHAP/EBT, WIC, WIC FM or Senior FM vouchers). Transactions were
- documented on sales receipts. Future \$45 coupons were redeemed on subsequent market dates when \$45 participants spent \$5 or more in food assistance at the market. Participants could receive up to or coupon per week, and \$45 coupons could only be used at the RCPS mark et. Coupons rive up to one
- expired on the last day of the market season. Demographic information on all participants, including how they heard about the RCFS
- st, was collected through enrol

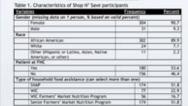


Use of Shop N Save

- Of 336 total participants, 465 returned to the market at least once.
- \$45 coupons were used most frequently on June 22nd (the week Senior and WIC FM.
- Of 3690 total market transactions, 16.45 involved Shop N Save coupons. (Figure 1)
- Total revenue at the end of the market season was \$15,719.73. Total food assistance revenue was \$5921.65 (37.71). Total revenue from \$45 coupons was \$3071 (161).



Shop N Save participants



How did you hear about the RCFS market?



Figure 2. Chart comparing how SHS participants heard about the market scalad whech more than or companys. Percentages are calculated from 9-106. Categories with a response of Et or less are not included in this comparison.

Conclusions

- The majority of SHS participants are African American, female, and patients at Family Health Center, SNAP/EET and Senior FM vouchers are the most common forms of food assistance used at the market.
- Word of mouth was the most significant means of communicating RCPS and SNS among participants. Friends, family and fellow community members are trusted sources of information in the community and should be considered when marketing an ntervention (1).
- Vaucher distribution centers (SHAP/WIC office) are also important sources of information for food assistance recipients. Markets should provide information about
- incentive programs at these locations.
- Formal methods of advertising joutreach events, newspaper adu) brought in less than of participants and were least significant in recruiting participa





- Friedman, D. (2012). African American men's perspectives on promoting physical activity: "We're not that difficult to figure out?" Journal of Health Communicat 17/10. 1151-1170.
- Freedman, D., Hebert, J. "Double down on obesity with double burks at farmers" markets" [Letter to the editor]. (2012) The State Newspaper. Retrieved at

Freedman, D. A., Whiteside, Y. O., Brandt, H. M., Young, Y., Friedman, D. B., & Hebert, R. (2012). Assessing readiness for establishing a farmers' market at a community health center. Journal of Community Health, 37(1), 80-88.



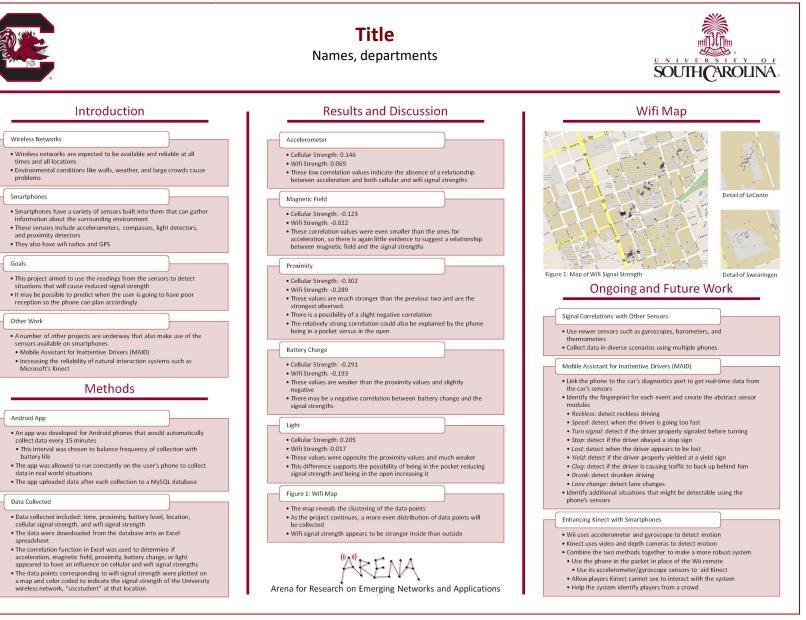




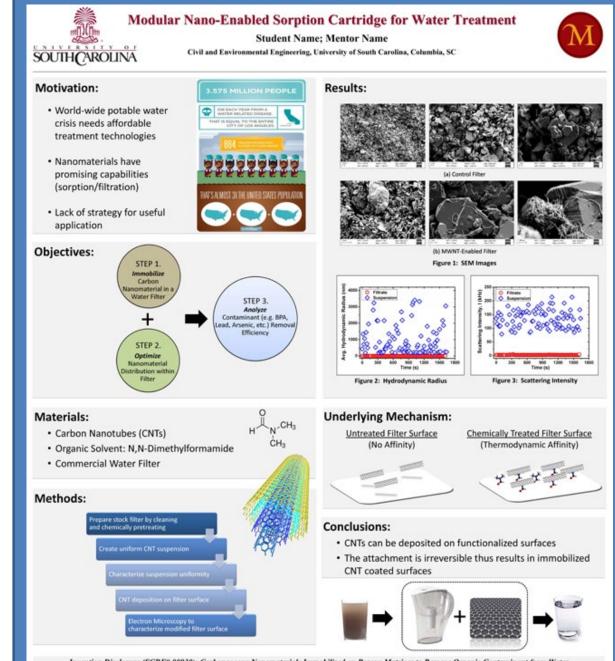


Program

"Expected" layout when few pictures available

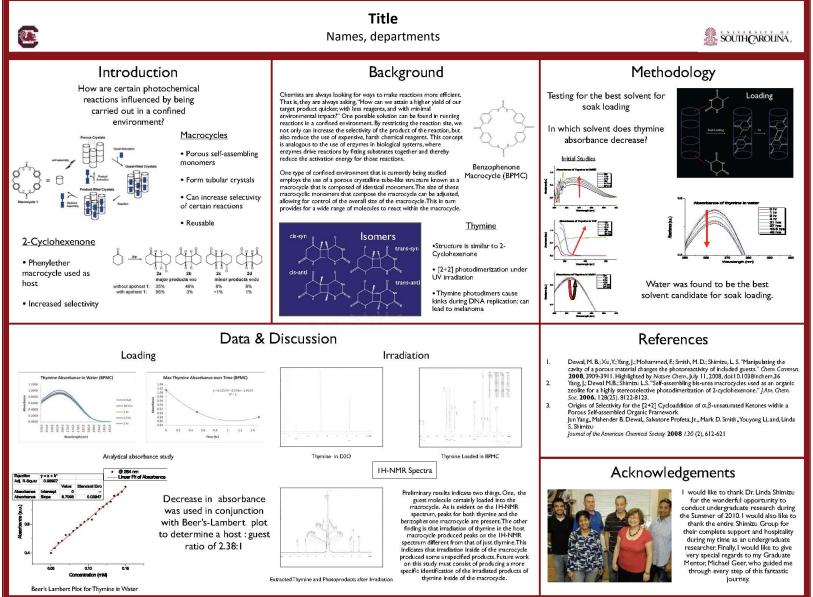


"Expected" layout with great image use

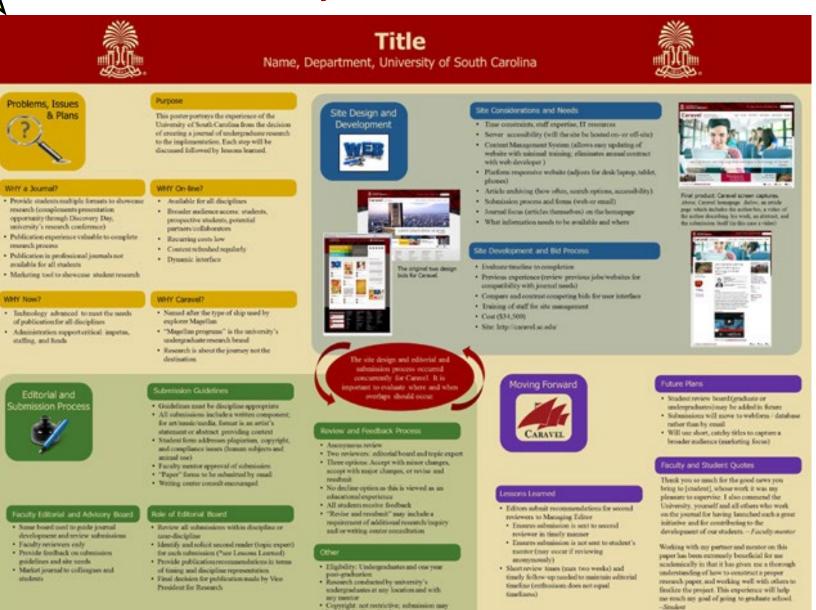


Invention Disclosure (SCRF# 00930): Carbonaceous Nanomaterials Immobilized on Porous Matrices to Remove Organic Contaminant from Water

Non-traditional layout



Non-traditional layout



he published in other forums

Non-traditional layout

Dennis and Dennis Architects: Architecture and Culture in Macon, Georgia

Student Name Art History, Sociology

Room at the Washington Memorial Library.

Future Work

Resources

Introduction

I am investigating the cultural and architectural histories of six major buildings in downtown Macon, Georgia by the long-running local firm of Dennis and Dennis. Though the firm produced many recognizable public and private buildings during their long career, no one has thoroughly examined the extent of their influence in Macon. Relying on a variety of primary sources, my project assesses both internal evaluations of the firm's work as well as the public perceptions of these buildings over time. In the course of my research the evolution of the firm throughout their work on these six buildings has aligned with and been a parallel to the city's own commercial growth. The products of this research combine architectural histories of each building with analysis of the unique cultural impact that the firm and their buildings have had on the city.

Constructed

Style:

to 1913.

details

form

Impact:

Sunday school.

tower • Brick and plaster

the community

engagement.

·From here they have

Temple Beth Israel



Constructed: · Construction completed in 1902 · Designed for the oldest

Jewish congregation in the city Style: · Classical details, portico, and

a crowning cupola define the symmetrical façade · Masonry and stucco composition · White stucco composition, subtle pilasters, and delicate stained glass line the streetfacing elevations and create an

elegant Impact: · Set on Cherry Street, it binds the residential area on one end with the civic sector on the

· Its design and longevity have fostered the organization's community involvement and become a physical image of the historic congregation's legacy.



on drawing by P.E. Den



Shortly after Completion

Centenary United City Auditorium

Methodist Church

Construction lasted from 1903

· Commissioned by a small

congregation that started as a

· Highly decorative classical

· Richardson-Romanesque

· Characterized by dramatic

·Its placement on a major

street, next door to Mercer

University, and facing public

space gave the church access to

established themselves within

outreach and community

·They are still an active

congregation in the area.

persisting through various

changes in their surroundings.

Centenary Shortly after Construction

the downtown area, focusing on



Constructed: ·Construction from 1923 -1925 ·The decision making process took nearly ten years. This time was characterized by a great deal of indecision on the location, style and capacity. Style: ·It is Monumental porticoed limestone structure ·Sits atop an announcing pedestal ·Houses the largest copper dome in the world ·Neoclassical in design ·Entrances line each street elevations ·An outdoor stage projects from the Cherry Street elevation Impact: •The structure has been immensely successful as a locus of culture and civic gathering. •It commands attention from all over downtown and binds



its neighboring governmental, cultural, and commercial sectors

Citu Auditorium's Original Interior



There is still so much more to be learned about the firm and I hope to have opportunities to continue this

eventually attaining a better point of comparison for their work across the country and within the Middle

research. I want to have a more comprehensive idea of the scope of their work and the history of the firm itself,

Georgia area. As I prepare to begin graduate coursework for Historic Preservation, I hope to eventually foster a

career of highlighting the great stories behind buildings such as these that so intricately shape communities.



Constructed: •Original City Hall constructed in 1833 ·Dennis and Dennis renovations in 1935 Style: ·Neoclassical temple front projects from two side bays façade Impact:

·Its regularity and explicit historic style convey its governmental function. of the city. designs







City Hall after Completio



Constructed:



Style: ·Abstracted Neoclassical details characterize the impressive four story façade Modeled after Elam Alexander's original design for Wesleyan College, which formerly stood on the property ·Designated by a squared cupola at its top ·Brick and Marble structure Functional post office needs grow out of the less formal rear Impact: •The building's referential design honors the city's history, while its Classical abstractions mark it as a modern regional business center. ·Dennis and Dennis proved their skill at infusing symbolism with their signature traditional language. •The buildings ideal location on College Street insures that it is



still a busy center today.

Dennis and Dennis Rendering of the Post

·Masonry and stucco composition ·Very symmetrical, rational ·Little decoration ·Pilasters and laurel wreath reliefs within the entablature break up the surface

 Set in the same location for over a century, it has become an icon











Macon Telegraph Ad for INA Open Hous



Dennis and Dennis Rendering for Gate



·Construction completed in 1064 ·Commissioned to look like Independence Hall •Marble and brick, symmetrical ·Rich with symbolic details and •The building sits atop Coleman ·It does not face the street, but rather looks over the entire city. recognizable icon in downtown

Macon's landscape •The building is now home to Mercer University's Law School



North America

•Completed in 1957

Constructed:

structure

design elements

·It is an immediately

Style:

Impact

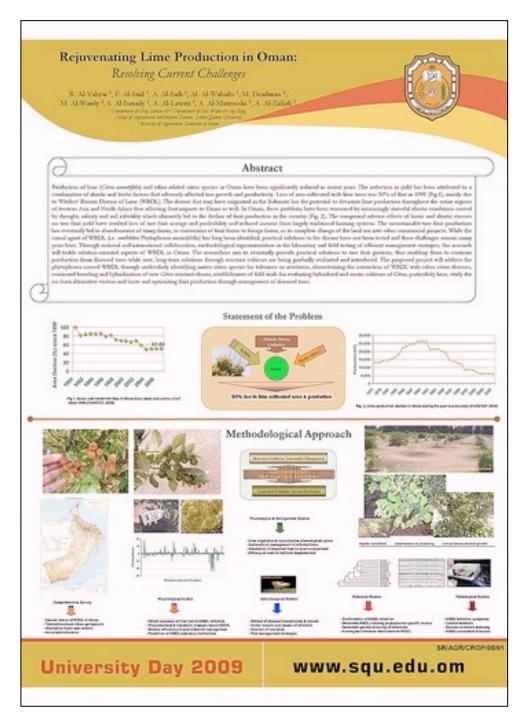
Hill





 $\overset{\wedge}{\searrow}$

Alternative layout with top to bottom flow



"Expected" layout for activities/experiences



Title

Student Name: Mentor Name Department, University of South Carolina

participate create lead **USC**CONNECT

USC Connect

USC Connect is leading the transformation of students' educational experiences through a university-wide focus on integrating learning within and beyond the classroom. The ultimate goal of USC Connect is for students to be thoroughly and deeply prepared with core knowledge. developed skills, and the dispositions to contribute and lead in home, community, and work settings. USC Connect strives to enhance the learning of all students by promoting participation in beyond the classroom experiences, and creating opportunities for reflection on these experiences.

Community Service

One thing about me that sets me apart from many others is the dedication I put into my service work here at Carolina. I currently serve as Executive Director of the Waverly Afterschool Program, President of Students for Big Brothers Big Sisters, President of the USC Chapter of No Kid Hungry, Vice President of Make a Wish Organization, Vice President of Community Service for USC Connect Student Representative Board, as well as a host of other organizations. Besides serving, I have also completed two service-learning components as well.

Reflection

The unique thing that I really enjoy about USC Connect is that the five pathways to success are all different, but connect to each other. Being involved with Community Service is a pathway that can connect you with anything whether you are studying abroad, doing research, or taking part in an internship! USC Connect emphasizes that service is a great way for us to reflect on helping our local and global community & address many grass root problems that fall through the cracks because there are not enough people to help address them.

In Class Experience

In my School's in Community (EDFN 300) class I have been able to learn what it means to be an educator. I have researched several different regions and learned how education looks differently where ever you go. Being able to take the information I have learned inside the classroom has created a gateway to what I participate in outside the class. Learning strategies such as how to tuto students makes a difference.

Waverly Program

I take the most pride in the transformation the Waverly program has taken since I started to work with it. The 2012-2013 school year was the first year that I took over the program as Executive Director! I have been able to improve the program. We not only expanded our volunteer base, but we also expanded the program so that we could help even more students. This year, we partnered with St. Lawrence Place, a transitional shelter for single mothers, and brought the Waverly Program there so that their children could have access to the same resources as those who attend Melrose Park. Everyday I see significant similarities between what I have learned in my classes and the work that I do with Waverly. Being able to make a connection between the two helps a lot, especially since the work I do directly correlates to my future career plans. Waverly embodies what USC Connect stands for when it comes to outside experiences.



In my work with Waverly I am preparing myself to be an educator. My goals consist of expanding the program I have grown as well as working more on learning exactly what it means to be an educator.



In my Speech 140, class I

audience. In the photo to the right I am reading a book to

was taught the skills to

communicate with any

a group of kindergarten

In the photo below I am

the Waverly Program

tutoring a local high school

student who participates in

school.

students at an elementary

Community Service in Action

South Carolina class (Univ. 201) we took an alternate spring break trip to Allendale. SC. In this photo I am working to restore an abandoned home so it can be turned into an educational facility for community





Conclusion

When I created an e-portfolio I was able to look back at all the work and accomplishments I have participated lin and reflect on those experiences. Creating an e-Portfolio not only helps me reflect on what I learned, but may also help me attract future employers.

What I Learned?

I have learned the art of true reflection from working on this project. I was able to take one pathway from USC Connect-Community Service, and expand on the one aspect of how everything we do inside the classroom connects with what we do outside. I learned that you should always keep a journal of every organization and event that you take part in. It is important to record the purpose of the event and what you got out of it.

Future Career

I have learned that everything I do helps prepare me for when I have my own class and am teaching. Working both at the Waverly center combined with my experiences inside the classroom helps to ensure that I have the proper tools needed to be a successful educator.

Learning Never Stops

What I will take away from this experience is that learning never stops. As I learn within my classes, I am able to use that information in my community service position. As I work with students, I am constantly learning from: How a particular teaching style works, how to create lasting relationships with students, and how to appeal to their learning styles. I know that as I begin my career as an educator, I will repeat this cycle. I will reflect on my experiences I will be able to use what I learned to create a great learning environment.



Alternative layout with top to bottom flow for activities/ experiences



Hypothesis Globalization has facilitated the renewed attention to handmade goods and, through the internet, ass sisted in the formation of collective groups. In today's global world filter arts are being re-contextualized and reinstated in the lives of modern day women and men. This has brought about new movements in fiber arts to "DIV", or do-it-yourself.

Introduction goal of this project was to explore up in which globalization and ch rest relate to the formation and ice of collective k ups, Part of my research ed the differences between og cultures of Asheville, NG Fork City, NY. Talso egroups use social media sites like Raychy com to cate and enhance the group as both ostand off line. I staated this project around the idea that crafters organize collectives to counter the aliccustion of global

Motivation I learned to knit at the age of ten and have been booked ever since. My personal mercine and the tenters ne has led me to question what makes this particular type of collection on the ways in which internet has become integrated into my own se to examine the ways in w ters, as a community, utilize the sources Rable on the web both for communication for furthering their craft.

History of Knitting representation lanic Ecopt. 7%-0% contany Moors of Spain
Catholic knitting ice ention of draw plate needles 1566 Queen Elizabeth I and machine Revolutionary War Anathine The Industrial Revolution Vitrorian Edsure kulting
N Knitting for Sammy WWI and WWIJ ♦ Post war decline
♦ Yarn markets of the Sos Celebrity Knitting in the 50) late oce

Events

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And the Party of t

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Goals of Study ne online activities t morth friends

futing my researc

Methods





Asheville, NC

Wednesdi Sit n knit

'n Kei

Knitting climate Groups Studied

cold in winter need for knitted

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Findings

- ing gives people a

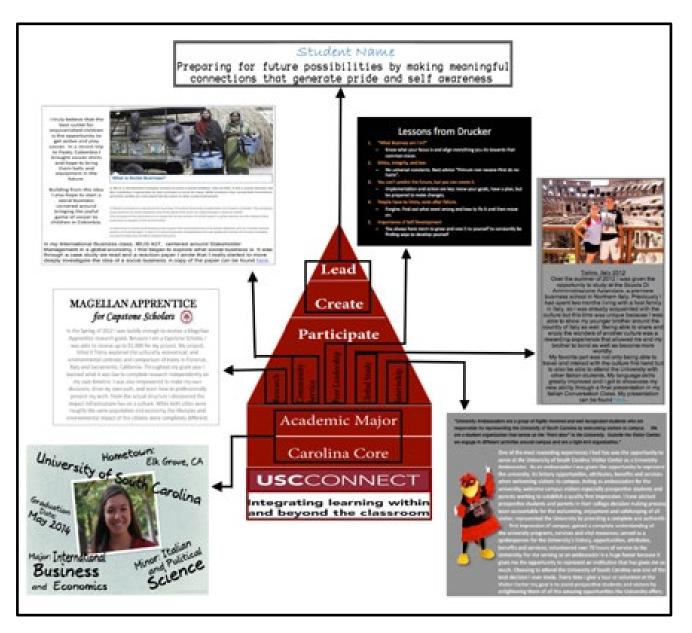
- - Conclusions
- d ceintroduced into the lives

- atters of today are drawn to dective activity he internet has given freedom mice in the ways imitters relat

Acknowledgment

sanguover viersity of South Carolina Magellar olarship and Magellan Mini-Grant oline Wayyer

Non-traditional layout for activities/experiences



GABA Mechanisms in Audiogenic Seizures Studied Using Herpes Virus and Lentivirus Mediated Gene Transfer

S. A. Epps^{1,2}, J. R. Coleman¹, ¹Department of Psychology, University of South Carolina, Columbia, SC 29208; ² South Carolina Honors College, University of South Carolina, Columbia SC 29208

Introduction

nic asspure (AOS) susceptibility in Long-Evana ratio results from asposure to interes sound during an early sensitive period' of development and is characterized by with turning and closed consultations following prisrate at sponre. Esperimental models of service disorders have demonstrated the efficacy of increasing GASAarpic activity when the priority policylus (IC) in the AGS model, increasing IC GABA levels directly or indirectly (via injection of GABA B) Color and another the evaluation of CADD's reduces ADD excellence and annexity. Alteration of OABA, receptor excellence and appears to be a colocal feature of secure a del monthelitte

Gare bandle technology shows provide for the sholy and transmet of sequer disorders. Previous sholes showed the influencess of specing a harpes tradit vector encoding for QADM (CARANA) to relate the incidence of wild running and clanus behaviors. To sholy long-term expression, it and clanus behaviors. and control services was reached into the cardeol nucleus the SC in order to change OAQ₁₀ or GADA, sequession balanceal lealing was then conducted to exercise the affect of visa given therefore in AOS. The incidence and latency of ADB wild surviving and clone: convulsions were essential batum and after logistion, immunochemical and histological essentiation of the injection site followed behavioral teeling

Previous Findings

-

Wild Running and Clonus Inclatence Percentages Following GADES and Alpha-1 Mix Benze Person Simples | Injections

Prevenue studies itsurd that infection with GADIS series herpes unal vector applicantly reduced the moderce of overall closure. 17(n2) REL prill 20. For will surroup, there was a marphal encrease in incidence between at pre-bests and Posterel 3. 17/12.268, prd.055, as well as significant decreases both print lost and Post-lost 3

Methods

AGS susceptibility in Long-Evens him is functed, induced by expressive to puter have burets (10 eVs. 125 off 30%, 8 m) on PND 18. Automet by autoexputert beating on PND 32 (125 off while name man warman 2 to 1

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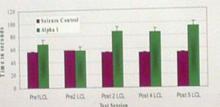
•Outputte seems pro-meased for AGB 2 and 2 days before surgery, incidences of AGB activity process, and surveying or and converge & closevely mease recorded as well as famousy to who

situat needing for AUDI and conducted 2 monoph 30 mark after

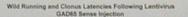
Subjects were introversitely perfused were 56 PO₂ bulkerer's anglomationystic Process adjuscent IC excloses (60 peri were processed for 3-patientenisten Rijk-Dat Septem GADES Determiner, in Nach substance.

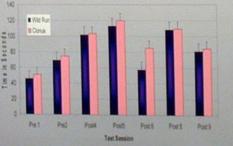
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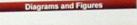


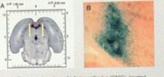
Treatment with lentivirue GABA to 1 injections yielded no significant changes in latencies to wild running. However, the latency to clonics increased significantly from pre-testing to Post leads 2 (P+10.528, p+0.05). Post lead 4 (P+15.180, p=0.05), and Post lead 5 (P+18.042, p=0.05), and organet with sectors control lats. The overall incidence of clonus between pre-tests and post texts was only marginally reduced, p=0 D93.





The sector is well overlap increased significantly from Pin-best 1 and 2 is Pinet heat 5 girls 00. Provide at 2 girls 00 is not pro





A. The central nucleus of interior colliculus (CNIC), located in the midbrain region of the rat brain

II. b-galactoxidase (b-gal) staining shows injection site in redial central nucleus of right IC on neutral red background (50 x).

Conclusions

- us data showed that blocking GADES or GABAARu1 expression increases incidence of wild running and closus in normal seizure resistant rats. Also, enhancing harpes GAD61 expression agnificantly reduces the incidence of clonus in primary post-testing in normal seizure resistant primary post-sesting in normal secure resident rate. Enhancing harpes GABAA1 reduces the locidence of wild running is primary post-leading of normal selzure resistant rate. 1
- 2. Enhancing lentivirus o-1 expression algorificantly increases the latencies of clonus during post-testing. The overall incidence of clonus was marginally reduced.

3 Latancy to wild not and clonus increased significantly in rate treated with a GAD85 sense lantivirus injection. Chi-Square results also showed a algoificant decrease in wild running and incidence following this injection.

This research suggests that introduction vectors which influence the GABA synap used systematically to study seizure m -----This method may be useful in all human splippey in the future.

References & Acknow gements

- Sufficiencies. Nosa N.C. & Coleman ---featurentially priced Destigrants
- Fainplife C.L. at al. (15 the other the solution statistics process choppent and one front Paternet a lottom role in party C.J. FRIPPLER GD. & FORM K.C.

I million of autopene Million 196 196 196 and the Initiality

O.E. Venable", L.E. Martin', S. Kamari, S.

Want to provide additional information or handouts during your presentation? -add a folder or envelope of info to bottom of the display board

MUST bring your own push pins or thumbtacks



Display format

By permission and special request ONLY This format is for static or visual arts; some demonstration based projects/experiences



- Contact <u>our@sc.edu</u> to discuss needs
- Table (half ~4ft) / NO poster board
- No electricity available

How To:

Planning your poster



Planning:



REMEMBER: You are not in this alone – talk with your mentor!

ASK for assistance!



Planning: Identify Message



What do you want the audience to know when finished?

Identify your message!



Planning: Support Message



What information is CRITICAL to understanding this message?

Include ONLY message supporting information!



Planning: Outline Information



Outline your message and supporting information

The abstract is a good starting point



Planning: Outline Information Possible questions/issues to consider in your outline:

1) Clarify your message



- 2) What activities or results support message
- 3) What information is needed to understand the results/experience and how you got to those results
- 4) Are there images that can help explain or support the message
- 5) Introduce or explain the activity to put it in context
- 6) Are there any future plans or next steps
- 7) Review "typical" sections (<u>Slide #18</u>)

Stay message focused!



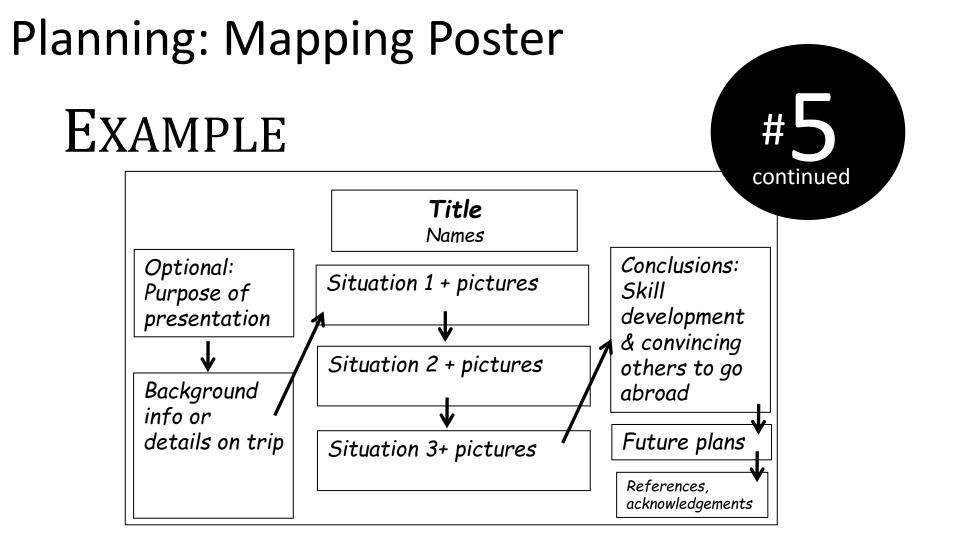
Planning: Mapping Poster



Map your outline into poster format on paper

Review critically; focus on the message!





Review critically; focus on the message!



Planning: Resources



- Connect with your mentor, supervisor, and/or instructor EARLY in the planning process for recommended resources and content
- **REMEMBER:** some content cannot be shared due to intellectual property ask your mentor!
- General resources and how tos there is a lot of info available on line to help support your poster development



How To:

Creating your poster



Creating your Poster with PowerPoint

A ton of info is available on line to help support your poster development

Check out YouTube for tutorials on making research posters in PowerPoint; be sure to filter by upload date for the most recent software versions

Discover UofSC Poster Size MAX:48in (H) x 42in (W) MIN (GLD): 24in x 36in (vertical or horizontal; GLD poster templates and guidance here)



How To: Details: Making it GREAT



Guidelines: Color

Use color, photos, charts, and graphs to **support** your poster and message.

Remember: A little color goes a long way. Stick to two or three colors **for text**.





Ahstrac

98% of Alz

eposition of amyioid plaques within the cerebroasculature, consisting mostly be fibrilliar amyioid plaques within the cerebroasculature, consisting mostly be fibrilliar amyioid potenti (AD) prainer, Polyphenols such as resevented, imyricetin and how the sense ontoling the energy for AD as they be of inhibiting formation o (AD or disassociating performed (AB, In this study, d the effects of a new group of polyphenols – apigens, lutedim, X^A , difference, and X^A/X^A , Senschalvdowthousen – and AB ascission.

Tables and the second s

Background and Significance

AB Protein

....

AB Fibril Formation

Methodology

Fibril

athological Properties

Impacting Communities, Changing Lives: Diabetes Education in Columbia, SC

Student name, Senior, Department of Anthropology

Results

Whether came and states and and

Free Clinic of Columbia, SC

How Physical Health Was Affected

Blood Pressure

132.86

111/71

131/77

120/80

which as being the

Weight and Blood Sugar Averages

(Pre vs. Post)

186.94 33.72

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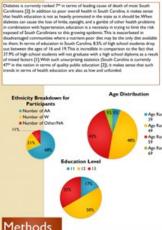
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Mentors: Names

Background



Average POST

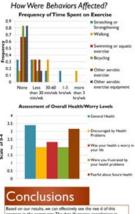
Differences in Wellness Markers Weight Difference

Blood Sugar Difference Blood Pressure 5 Difference Blood Pressure D Difference

Average 19.5-SESSION

BMI Difference





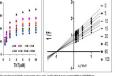
program in the community. The data illustrates correlations in othnicity and in education levels with behaviors and physical il nicity and in education levels with behaviors and physical illnes ethnicip and in education levels with behaviors and physical lines (Pholema with promotion through the clinica and the restrictions) regards to assessments of patients after the sessions also provented in from gathering a true picture of Anocher contounding aspacet of our project showed that individuals were more conditionation that mice satisfies and a start their behavior enough to show any significant changes. Ways to improve the satisfies and the set of the satisfies of the satisfies and the behavior enough to show any significant changes. Ways to improve the satisfies of the satisfies the project consist of monitoring the program over a longer length of time and analyzing different educational models for

Acknowledgements

Special thanks to the Carolina Leadership Insteam for the pract that all the conduction of this project. I would also like to thesk the Free Chein Columbia, SC and allowing my rail and myodi in strating their facilities project. I would also the to thesk my team consuming of Singhawa Cra-Philip Rotels, Molin McCarol, Neing Granes, Charlosa Werz, Annach Se Manese, and Kramer Mullen. I would also lise to promotily that ID-SC mo tea to personally than ship through this project

Age Range 30-12 Age Range 40-49 Age Range 50-Age Range 60-Methods Acquiring Patient Information (Pre-meter levels): Before patients enter the rogram, they must sign a waiver in order for their health information to be used. Their health information will be used for the purposes of quantifying the impact of this project on the Columbia community. This must be done in accordance with HIPAA law as information is considered case-sensitive. Course Regimen: The course took place once a week on Fridays at IPM.A total of two classes were taught in regards to the disease and meal management. Each BMI Difference patient will be required to sign in before the commencement of the class and be given pamphlets at the conclusion of each class. After the conclusion of the patient's cond class, the patient will be rewarded with a glucose meter and testing strips. ent files were examined to indicate which patients were able to return for a pllow-up with their appropriate biophysical assessments recorded. This will allow u

corrected fluorescence



Conclusions The inner filter effect alone does not explain the la Double-reciprocal plots of ThT concentration and corrected fluorescence indicate that polyphenois and ThT may noncompetitively bind to fAβ.

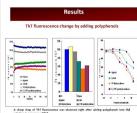
Future Work

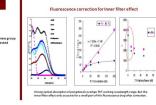
Screen these polyphenols in protofibril elongation and association med ing effect other aggregati whether polyphenol binding to fAß can alter cell resp

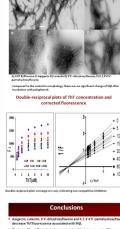
Acknowledgements Dr. Moss Research Group

NSF CAREER Award (BES-0644826) to MAN Magellan Scholar Undergraduate Research Award South Carolina Undergraduate Research Funding (SURF) through the South Carolina Honors College Pilot Study Grant, University o Medicine Center

Ware into Aß Fibril Preparation Isolated monomeric $A\beta(1-40)$ was incubated with 150 mM NaCl at 25°C and then agitated on a vortex at 500 rpm to promote assembly. $fA\beta$ was isolated by centrifugation. Aß Fibril Measurement offavin T {ThT} fluorescence was used to monitor the quantity of amyloid material. $^{\circ}$ binds the β -sheet structure of amyloid fibrils, giving a characteristic shifted Measurements were taken to correct fluorescence changes caused by the inner filte Transmission electron microscope (TEM) Imaging is used to visualize changes of fAB. Double-reciprocal plots of ThT concentration and correcte-fluorescence for different polyphenol concentrations at fixe amount of fAβ were assessed to investigate binding competition 1/Fc=Km/Fmax*1/[ThT]+1/Fmax AB Fibril Disassociation Assay fAβ were diluted to 20uM in 40mM Tris with 150mM NaCl in presence or absence of 200 Reaction solutions were inculsated without agitation at room t least 2 hours. Then samples were tested for ThT fluorescence, CD and







CD spectra of fAß incubated with polyphe

TEM imaging of fAB incubated with polyphe

220em indicate p-sheet structur 14p. Compared control, there

4386 108

GOOD:

- 1) use of color to highlight and separate sections;
- 2) uses color and pictures effectively in results;

BAD: text small





Title

Names, departments

University of South Carolina, Columbia, SC

Aβ Monomer Purification

Site exclusion chromatography (SEC) is used to purify AQ(1-0) peptides. Pre-existing aggregates, which can serve as aggregation seeds, are removed in this manner.

The second peak represents the isolated

Concentration of Aß monomers is determined from UV absorbance at 280 nm corrected for

Guidelines: Color

When choosing colors for your poster, err on the side of conservatism.

>Chartreuse and pink? Not so much!

Certain colors "vibrate" when side-by-side, making text difficult to read:





Impacts of sea-level rise on Seattle, WA

DANIEL MAHR - BROWN UNIVERSITY - GEO132 - DECEMBER 12, 2009

Intreduction.

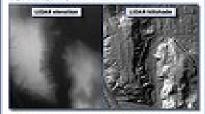
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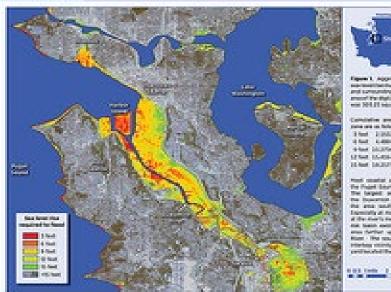
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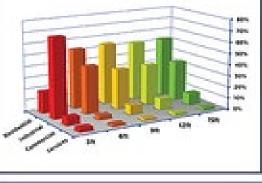
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Conclusions

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Acknowledgements

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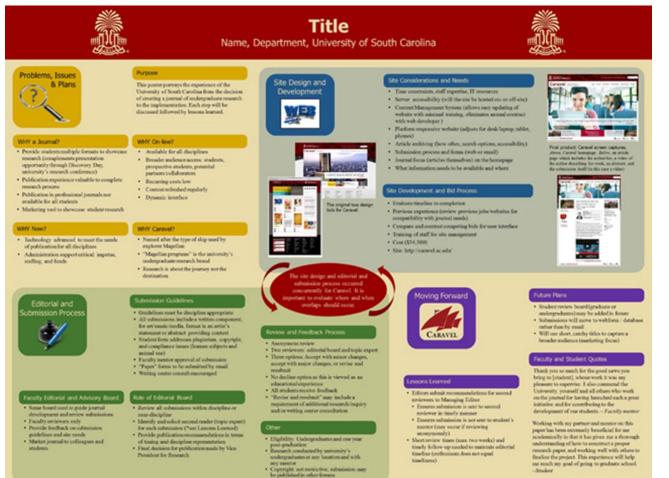
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STATISTICS AND INCOMES AND INCOMES

GOOD: 1) use of color and contrast; 2) sections highlighted and separated for emphasis; 3) good focus on data/results; BAD: too much text

Guidelines: Color

Color can be used to accentuate, separate, and/or highlight information



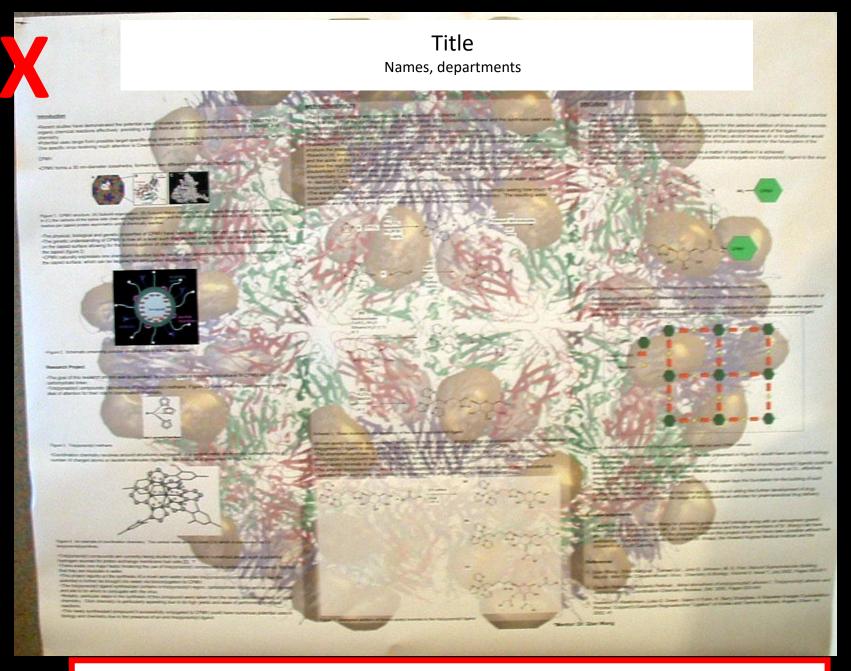
Guidelines: Color

Avoid

background

pictures!





Background overwhelming text; text too small



Title Names, departments

Introduction

Play behavior in juvenile rats is important for the recognition of social cues and behaviors in adulthood. One of the biggest indicators of play in juveniles is pinning (Panksepp & Beatty 1980), which is when one play partner is laying dorsal-side down with another partner laying on top (Vanderschuren et al 1997). Pins are usually preceded by contact with the dorsal area of the pinned rat.

In the past, play has been shown to be affected in models of Fetal Alcohol Syndrome (FAS) (Meyer & Riley 1986). While FAS models show that alcohol affects both duration and rate of social behavior (Kelly et al 2000), relatively little research has been done on play.

Siviy & Panksepp (1987) found that juvenile rats with their dorsal body surface anesthetized show a concentration-dependent reduction in play behavior. The current experiment uses an FAS model to analyze the effect of alcohol exposure on play behavior in rats with varying degrees of sensory impairment induced by local anesthetic.

Treatment

Prenatal and postnatal alcohol exposure administration was done via intragastric intubation (see table below).

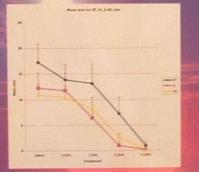
	Treatment of Dams (GD1-Birth)	
Makasal Controls (IC)		
NOT THE CONTINUES.		

Procedure

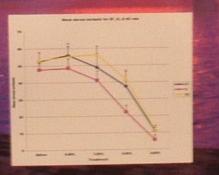
Two males and two females were used from each litter. Rats were weaned at postnatal day (PD) 21 and housed separately at PD 27. On PD 32 to 34, rats were habituated for five minutes to play in an isolated area. On PD 35, rat pairs began testing. Five doses of xylocaine a local anesthetic, were used 0.00%, 0.50%, 1.00%, 2.00% and 4.00%. 2 ml were administered donally in four places, behind each ear, and laterally at each side above the ribcage. The treatments were administered in randomized fashion over five days of better.

Results

The amount of mean pins for each xylocaine treatment in he ET group was significantly more than the IC or NC groups, except for 0.50% 8.4.00%. These data are collapsed across sex.



The mean dorsal contacts for each group followed the general pattern of peaking at 0.50% and decreasing except for NCs, who peaked at 1.00%. These data are collapsed across sex.



Conclusions & Future Directions

The data at this point suggest that the effect of sylocaine treatment did not interact with group. This suggests that the change in play behavior seen here in ethanol-exposed rate is not a function of somatosensory processing changes, and instead must be a function of some other aspect of the social behavior system.

The heightened number of pins in the ET group suggests that either the ethianol-exposed rats are more motivated to engage in play behavior, are more sensitive to play initiation by another ammal, or are more likely to exhibit play responses. The lack of differences in dorsal contacts across groups suggests that there are no differences in play responses and the lack of interaction behaven group and sylocame dose suggests no differences in sensory sensitivity to play initiation. Therefore, it may be that motivation to play is altered in alcohol-exposed animals. This suggests that alcohol exposure may be altering social motivation during the juvenile period. FAS is known to increase the likelihood of impulsive, and subsequently delinquent, behavior, at least in maker (Tremblay et al 1954), and this may be due to changes in motivation.

References

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Background overwhelming & inconsistent with message; too much text and too small

Break text into easy-to-read chunks:

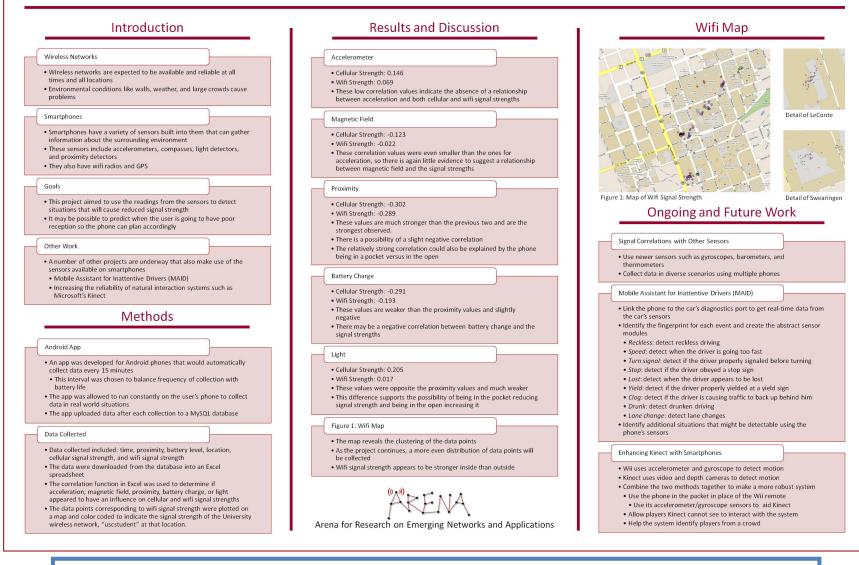
- Use paragraphs sparingly
- Use lists/bullets
- Use audience appropriate language
- Use distinctive section headers
 - Emphasize with text size, color, or font





Title Names, departments





Good use of color and contrast; sections highlighted and separated for emphasis; bulleted lists easier to read

Use an easy-to-read font for all text at a minimum size of 24pt.

Avoid ALL-CAPS for extended blocks of text, as they are HARD TO READ.



Limit to two fonts:

one serifed and one non-serifed



Use "standard" fonts, such as:

Serif:

- Times New Roman
- Garamond
- Georgia

Sans Serif:

- Arial
- Calibri
- Verdana

Symbols, math:

Use only the most basic symbols needed



Using "standard" fonts limits printing concerns

Unknown fonts might be changed during the printing process, resulting in changes to your design and layout

To avoid font substitution, see "how to" docs for embedding fonts prior to printing



Suggested font sizes:

- Title sans serif, Title Case, 90-120pts
- Sub Titles (names, etc) sans serif, 72 pts
- Section Titles sans serif, 45 pts
- Main Text serif font, minimum 24pts (bigger is better!)



Guidelines: Images

Pictures, graphs, etc = **GOOD**!



Clip art = **BAD**!!!!



Guidelines: Images

- Check the quality of your image, picture, graph, etc. BEFORE printing (check it at 100% size – find this under "View" in PowerPoint)
- Avoid pixilated pictures and graphs!



Guidelines: Images

Don't use images you find on the internet for your poster unless you know:

1. The images are not copyrighted

2. The images are large enough to print well on your poster



Guidelines: Aesthetic

Simplify!





Excellent example of image use and extremely limited text





Civil and Environmental Engineering, University of South Carolina, Columbia, SC

- treatment technologies
- Nanomaterials have promising capabilities (sorption/filtration)
- · Lack of strategy for useful application

Carbon Nanotubes (CNTs)

Commercial Water Filter

STEP 1. Immobilize Carbon inomaterial in a Water Filter

+

STEP 2. Optimize Nanomaterial stribution withi Filter

· Organic Solvent: N,N-Dimethylformamide

repare stock filter by cleaning

Bectron Microscopy to haracterize modified filter surface

chemically pretreating

Objectives:

Materials:

Methods:

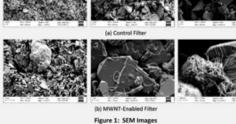


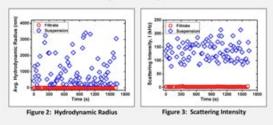
STEP 3. Analyze Contaminant (e.g. BPA,

ad, Arsenic, etc.) Remova Efficiency

CH₃

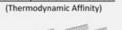
CH₃





Underlying Mechanism:







Conclusions:

- · CNTs can be deposited on functionalized surfaces
- · The attachment is irreversible thus results in immobilized CNT coated surfaces



Invention Disclosure (SCRF# 00930): Carbonaceous Nanomaterials Immobilized on Porous Matrices to Remove Organic Contaminant from Water

Guidelines: Aesthetic

Question everything!

- Does it support the message
- Is the language understandable
- Is it too wordy
- Is it too busy



How To:

Viewing and Editing



Viewing and Editing

Throughout the process, view layout and contents at full size and overall!

In PowerPoint:

- To view full size: View-Zoom-100%
- To view overall: View "fit-to-window"



Viewing and Editing

Share drafts with mentor and peers:

- HONEST opinions
- Editing assistance (grammar, spelling, language usage, layout, aesthetics, etc)

In PowerPoint:

- Email PowerPoint file
- Convert to PDF (Office button-Save As-PDF)
- Print on 8.5x11 paper (Office button-Print-check box: Scale to fit paper-preview to confirm-Print)



Viewing and Editing Full size editing:

If possible, it's a great idea to print out a full size draft for editing

HOW: (tips here)

- Printers
- Adobe Acrobat
- Publisher
- Excel
- Other?



Remember:

A successful poster...

- conveys a clear message,
- by high-impact visual information,
- with minimum text

...grabs attention!



How To:

Presenting



The TALK

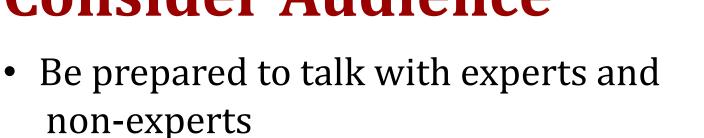


- Prepare a 30sec, 2min, and 5min overview of your project/activity
- Possible topics (think message and outline):
 - the context of your problem/experience and why it is important (Introduction/Background)
 - your objective and what you did
 - what you discovered or results
 - what the answer means in terms of the context or the impact

Spread the message!



Consider Audience



- Know definitions
- Critically review your poster and talk for potential questions
- Don't be scared of "I don't know," "I hadn't thought of that," and "Great idea!"

Don't assume knowledge!



Engage the viewer



- Invite the viewer to ask questions or offer to "walk them through it"
- Use the poster as a visual aid to emphasize points and share information (point to things)
- Don't stand in front of your poster (can move in while pointing to things)

Be welcoming!





Attitude

- If you are bored your audience will be bored!
- Show your enthusiasm for your topic

Share your passion!



Appearance

- Don't distract the audience with your own appearance
- Be neatly neutral OR complement colors
- Business casual (suits not required)
- Sensible shoes (remember standing!)

Don't clash!



As **Gamecocks**, our expertise has **No Limits**.



