

DISCOVERY DAY

Tips for Successful Posters

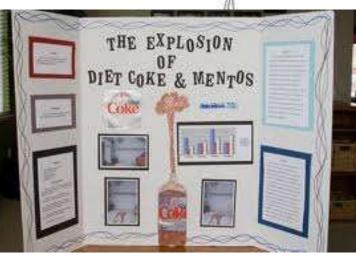
What do we mean Poster Session?



NOT this...











But THIS...







See it for yourself:

View one of the Discovery Day videos ONE and TWO



DISCOVERY DAY



Review **Discovery Day guidebook**

on OUR website

(http://www.sc.edu/our/doc/Guidebook.pdf)





Event Date: Friday, April 22nd

Location: Russell House

Registration

8:15 am-2:00 pm Registration opens Russell House 2nd floor lobby

Posters

9:00 am-10:30 am Poster Session - Morning Russell House Ballroom

11:30 am-1:00 pm Poster Session - Mid-day Russell House Ballroom

2:00 pm-3:30 pm Poster Session - Afternoon Russell House Ballroom

Oral & Creative Presentations

9:00 am-11:00 am Oral & Creative Presentations - Morning Russell House - Rooms vary

11:30 am-1:00 pm Oral & Creative Presentations - Mid-day Russell House - Rooms vary

1:30 pm-3:30 pm Oral & Creative Presentations - Afternoon Russell House - Rooms vary

Reception & Awards

3:30 pm-4:30 pm Celebration & Reception Russell House Ballroom

4:30 pm-5:30 pm Awards & Recognition Ceremony Russell House Theater





- 3 poster sessions (morning, mid-day, afternoon)
- Assignments random unless abstract submitted by PRIORITY deadline (last Friday before Spring Break)
- Notification on timing: week before (on website and by email)
- At Ballroom door, give your last name and you will be shown to poster location





- 2 posters per side of display board
- Poster dimensions: 3-4 ft high x 3.5 ft wide
- 4 t-pins provided to hang
- Angle pins down NOT straight through
- Nametags at registration table





- 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 in guidebook
- Judges: faculty, staff, and grad students
- Judges: 2-3 per section
- Judges are NOT experts in field
- No judging if NOT present at poster





- Award Ceremony: attendance expected
- Awards: receive envelope with information for certificate



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





Overview: Content

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

Abstract is not needed!





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):

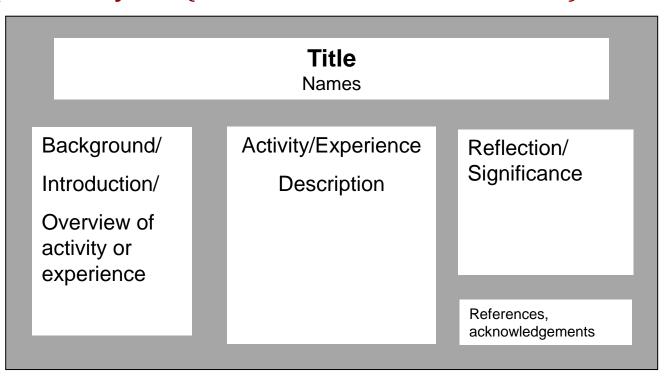
	_	_			
			Title Names		
Int	roduction		Results, data, etc.	1	Discussion
Me	ethods				Conclusions
L				ı	References, acknowledgements





Activity or Experience

Expected layout (3-4 columns of information):







Alternative layout: Progression of information (much less common)

Tit Nan	
Introduction and Background	
Results, Findings, data, etc.	
Discussion and Conclusions	
References	Acknowledgements





Activity or Experience

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





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

NaBH, + (2+x) H₂O -- NaBO, xH₂O + 4H,

- *The coefficient x represents the hydration state of sodium metaborate
- ·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
Tetrahydrate (x=4)	<54°C
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
- 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

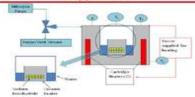
- Sodium Borohydride undergoes deliquescence in the presence of water vapo *Deliguescence is the process of water vapor in the air adhering to the surface
- •Water vapor goes to the liquid phase while in contact with the solid during debanescence
- *Deliguescence usually ends with too much water surrounding 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
- ·As less water is needed to dissolve the NaBH_a, the necessary weight of the reactor lessens which, in turn, increases the efficiency.



Hypothesis and Objectives

- ·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 Boron 11-Nuclear Magnetic Resonance (8³¹-NMR)
- Determine the water content of the final product using Thermogravimetric Analysis (TGA).

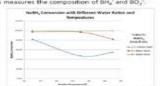
Apparatus



- Sodium borohydride and water are separated initially.
- 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

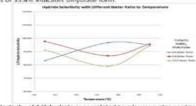
*B⁵⁵-NMR analysis measures the composition of BH₄ and BO₃.



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

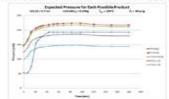
- •The TGA quantifies the water of hydration in the NaBO products.
- +A mass loss of 8.4% indicates 1/3-hydrate form.
- A mass loss of 35,4% indicates dihydrate form.



- *Higher selectivity of 1/3-hydrate is correlated to a lower water content in the final
- *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 (PG)	Motor Ratio of Systems Numbers	æ	Highwish Emporamental Proposageo (group)	Procuretical Procuret (prist) = = 0	Pressure (print 4 v . 89	Theoretical Persone (min)x = 2	Trecordica Precente (pola) x < 4
150	61	- 4	312.0	277.3	215.9	184.2	844.0
150	0.1	-2.	346.0	186.9	382.4	109.1	820.5
150	251	0.5	113.0	355.9	389.2	335.1	97.7
385	0.3		192.7	136.6	331.9	197.0	154.8
385	0.3	4	177.7	343.8	236.8	201.4	156.2
180	4.1	-31	394.7	205.6	298.5	562.e	131.0
280	0.1	- 2	248.5	2000	296.9	163.2	\$80.6
287	254	9.8	86.7	266.7	261.5	125.1	\$0%.5
287	254	0.5	74.7	487.5	269.3	126.3	D03-8
200	6.3	2	292.2	248.3	242.3	206.2	163.2
:300	43	2	345.0	212.0	204.6	167.2	135.1
300	25.1	0.5	125.0	1759	366.6	139.2	\$100.00

- From TGA, it is expected that the actual pressure will be between the 1/3bydrate and dibydrate 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
- A stable 1/3 hydrate form of sodium metaborate was produced under the eaction conditions, significantly reducing the amount of water tied into the olid product.
- •The decreased water in the solid product increases the efficiency of hydrogen
- 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

- Dr., Hong, Boyd, Christopher M., Beard, Arey M., and Walthews, Michael A. "Vapor phase batch hydrolysi of Nation, at allocated temperature and pressure." International Journal of Hydrogen Linguis. February
- 2011.
 Merroro Alfoeso, E. Y.; Gray, J. E.; Elzoto, T. A.; and Matthews, M. A. "Wadestynius Faedkum by
- about hydrater otto 1860 all consider Medicage Kinese. Occarrior 2007, 31 (10) 4717-4727, mt., Any 61. Davis, Thomas A. and Marthern, McCarl. A. "Obspace control to the Pythological of Se Boody-pill-side by Water Vaper." Industrial and Industrian. Demostry Recognity. 2010, 49 (20) 99.



"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

ASSTRACT

Minimization. Propositing through the colors by the flows in the throught quasar of death will colorosistic abroads, reducing the five year excitored to best flows 12%. Wherefore, occurs that is grand-ordere controlled inclination to count that is grand-ordere controlled in the color paths and tool-derivated certify in the borough requirement inclination, where is pre-predictabilities, enable to controlled to plants for cannot cell investment into the language angient. In a study test, common participated controlled contro

INTRODUCTION

Commission consume to this offered mount commission changes, miscounting for approximation (ML, OSE) described any larger commission, in this including change of commission commission (ML). When particular are foreign commission (ML) and the control control control commission commission (ML) and the control commission commission (ML) and the control commission of commissions of commissions commissions are described for commissions of commissions of commissions commissions are commissions of the commission of the commission of commissions of the commission of commissions of

HYPOTHESIS.

transcent programs of LCRC is positively assumined with progression of early colorected corner respectates in the form.

OBJECTIVES

METHODS

- For assessing LCMS persons become an incoperate custom currons and fines with different capabilities to montantance.

 To discovering whether moreuning
- to determine whether moreoving towns of LCRE colorates with the progression to aprly colorate
- Measure binding in welly presence of J.CNZ presence (J.CNZ (J.CNZ) and pCTPCN (Bredia) (36) were performed on flows out lines to determine varying break of LCNZ connectioning.

PRELIMINARY DATA

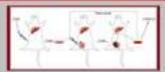


Figure 1. Monte reside on point parties installable to the liver*, CT25 cells and the installable on administrated to become highly incleased CT25.

CORNEL DISABATE CONTA

Figure 3. Frequency of their metasticals in white bearing functs their base tangents and these three bearing functor han the line transaction CT26 percent with fact (IAAN) was frequency of time resistance companied to may with before from CT26 F12 axis.

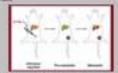


Figure 1. Microsofty emplois of mPEA outreasum to tumor bearing more before and offer the private of contestatio, sales. LCPC is one-expressed by the first in a pre-materials lear service a storm.



Figure 4. Enterprised analyses of being from some bearing once of carbon shapes of materials. In once with \$750.Put lasts, the strongly \$100 bears invariant with further properties.

RESULTS.



Figure 6.1.452 proton more in CTUS and CTUS PLE core many expressing high more of Lond.

Lin3 protein secreted by transfected CT26 Cells | Control | Contr

Figure 8, 1 and primer their secretal reside heritality and represents soft-

Figure 7. Communities of Land (pg/hi) economic by exetty translated of CERFA) and times.



Figure 8. Automo levels of notifick increasingly to CTSE derivative and lines using and time PCR against Election.

CONCLUSIONS AND FUTURE DIRECTIONS

- LSN2 is positively assumeted with colon carrier sells with greater shiftly to metavission.
- LCN2 is upregulated in the pre-metastistic reche after implentation of cultur cells above by real time PCR.
- The impact of manipulating LCN2 levels both by game suppression and overagression to otherwise depocally in vivo, must be assessed to additionally determine the role of LCN2 in early columntal cancer metastrate to the liver.
- The results of this further experimentation may provide aignificant support for the possibility that LCN2 is a biomarker for the event of metaclasis to the fine.

REFERENCES

PRODUCTION OF THE PROPERTY OF

Name of the last o

WWW. Committee C



"Expected" layout

Role of P-glycoprotein in the Transport of Amyloid-β Protein in Cerebral Amyloid Angiopathy University of South Carolina, Biomedical Engineering Program, Columbia, SC 29208 **ABSTRACT** S. AFFine activity is home P-phospholomentoson A flow commenter of Age is HORSEL monotone RESULTS DISCUSSION METHODOLOGY VIII manages was bored after 5-7 day, when the sale decad as on in TREA selves, expression of light produce province 20-2 and the contribution of VIIII 484 of the contributions.

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

Student name, Senior, Department of Anthropology Free Clinic of Columbia, SC

Mentors: Names

Background

Distators is currently renied 7th in terms of leading cause of death of orces South Carolinians (I) in addition to poor overall health in South Carolinia, it makes sense that health obstation is not as healty promoted in the state as it should be When our treatm troutations in the a felling production in the finish as a should be viewed to conditionate with hypertransition, detecting it is not expected by in trying its limit the risk exposed of South Curuliness to this growing spatients. This is exacutated in disabstratingto convenients where a number-spoor deter right in the one of the establish to them. In service of education in South Curulines 8.5% of high school scalents do con Exposers the large of 6 and 10 This is inventible to compartness or the story. 33. This of lingly is through stydeness will not granulate with a high school diplanes as a result of missed factors [1]. With such unsurprising statistics (facult factors is currently 47% in the resistion in terms of spating spatial exclusions (TI), it makes sense that such trends in terms of health substation are also as low lend unforched.

(Pre vs. Post) Ethnicity Breakdown for # Number of AA. # Number of Other/NA II Ago Range 45-

Methods

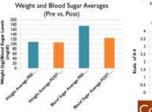
Acquiring Potient Information (Pre-meter levels): Before patients enter the program, they must sign a waiter in order for their health information to be used. Their health information will be used for the purposes of quantifying the impact of this project on the Columbia community. This must be done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

Course Regimen: The course took place once a week on Fridays at IPM.A socal of two classes were study's 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 pamphiets at the conclusion of each class. After the conclusion of the patient's second class, the patient will be rewarded with a glucose meter and terring strips. Patient files were examined to indicate which patients were able to neturn for a follow-up with their appropriate biophysical assessments recorded. This will allow ur to track the changes patients that participated in the education programs, All information will be recorded in a resubook and electronically. This will be staggered as patient intake is tracked.

Results

How Physical Health Was Affected

	Blood Pressure	Blood Sugar	вин
Blocks	13286	186.94	33.72
Whites Hispanics Othe	111/71	200.36	32.45
	131/77	255	45.72
Normal Range	120.80	120	18.5-24.9
"Only one patient self-	mental as Hope	en :	

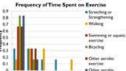




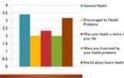
Weight Difference #Bood Sugar Difference Blood Pressure S Difference - Blood Pressure D Difference # \$15 Difference



How Were Behaviors Affected?







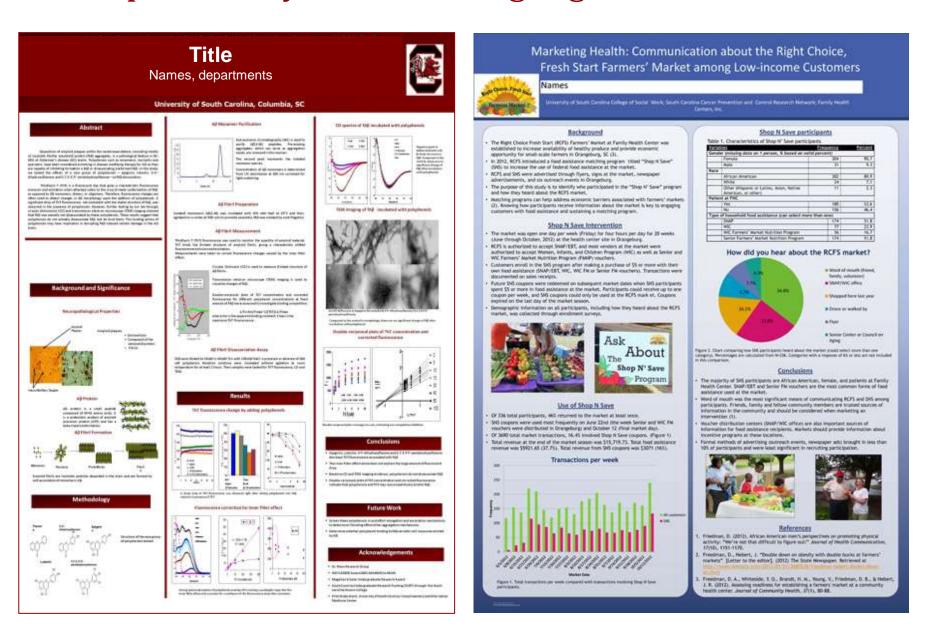
Conclusions

Based on our results, we can effectively see the nee d of this program in the community. The data illustrates correlations in intrinsity and in education levels with behaviors and physical if program in the community. The data shurrassic consistence is a translucing set in induction looks which behaviors and physical filmus. Problems with promotion through the clinic and the restrictions in regards to assessment of patients when the seasons obtained as provised as from piblining is true primary of Another combounding expect of our project showed that individuals were voice confident after the seasons yet will did not after their behavior ecough to show any agnificant changes. Ways to any the project consist of monotoning the program over a longer langth of time and analyzing different educational models for

Acknowledgements



"Expected" layouts with height greater than width





"Expected" layout when few pictures available



Title

Names, departments



Introduction

- . Wireless networks are expected to be available and reliable at all
- . Environmental conditions like walls, weather, and large crowds cause problems

- . Smartphones have a variety of sensors built into them that can gather information about the surrounding environment.
- . These sensors include accelerometers, compasses, light detectors, and proximity detectors
- . They also have will radios and GP5

- . This project aimed to use the readings from the sensors to detect situations that will cause reduced signal strength
- . It may be possible to predict when the user is going to have poor reception so the phone can plan accordingly

Other Work

- . Anumber of other projects are underway that also make use of the sensors available on smartphones
- . Mobile Assistant for Instheroise Drivers (MAID)
- . Increasing the reliability of natural interaction systems such as Microsoft's Kinest

Methods

- . An app was developed for Android phones that would automatically collect data every 15 minutes
- . This interval was chosen to halance frequency of collection with
- . The app was allowed to run constantly on the user's phone to collect. data in real world situations
- . The approploaded data after each collection to a MVSCR database

- . Data collected included: time; proximity, battery level, location, cellular signal strength, and will signal strength
- . The data were downloaded from the database into an focal
- . The correlation function in Excel was used to determine if acceleration, magnetic field, proximity, battery charge, or light appeared to have an influence on cellular and will signal strengths
- . The data points corresponding to will signal strongth were plotted on a map and color coded to indicate the signal strength of the University wireless network, "ascitudent" at that location.

Results and Discussion

- . Collular Strongth: 0.146
- · Willi Strength: 0.069
- . These low correlation values indicate the absence of a relationship. between acceleration and both cellular and will signal strongths

Magnetic Field

- . Dellutar Strength: -0.123
- . Wiff Strength: -0.022
- . These correlation values were even smaller than the ones for acceleration, so there is again little evidence to suggest a relationship between magnetic field and the signal strengths

- . Collular Strongth: -0.302
- · Wifi Strength: -0.289
- . These values are much stronger than the previous two and are the atrongest observed.
- . There is a possibility of a slight negative correlation
- . The relatively strong correlation could also be explained by the phone being in a pocket versus in the open

Battery Charge

- . Cellular Strength: -0.291
- · Wifi Strength: -0.19%
- . These values are weater than the proximity values and slightly
- . There may be a negative correlation between fattery change and the

- . Cellular Strength: 0.205
- · With Strength: 0.017
- . These values were opposite the proximity values and much weaker
- . This difference supports the possibility of being in the pocket reducing signal strength and being in the open increasing it.

Figure 1: Wifi Mag.

- . The map reveals the clustering of the data points
- . As the project continues, a more even distribution of data points will
- · Will signal strength appears to be stronger inside than outside



Arena for Research on Emerging Networks and Applications

Wifi Map





Octail of LeConte



Detail of Swearingen

Ongoing and Future Work

Signal Correlations with Other Sersors

- · Use newer sensors such as gyroscopes, barometers, and
- Collect duta in diverse scenarios using multiple phones.

Mobile Assistant for Inattentive Drivers (MAID)

- . Link the phone to the car's diagnostics port to get real-time data from
- + Identify the fingseprint for each event and create the abstract sensor modules.
- . Keckleus: skewer ruckless driving
- . Spend detect when the driver is going too fact.
- . Turn signal, detect if the driver properly signaled before turning
- . Stop: detect if the driver obesed a stop sign
- . Lost detect when the driver appears to be last
- . Neid detect if the driver properly yielded at a yield sign
- . Clog: detect if the driver is causing traffic to back up behind him
- . Drunk; detect drunken thiving
- . Lang Charge: debet lane changes
- . Identify additional situations that might be detectable using the phone's sensors

Enhancing Kiness with Smartphones

- · Wiluses accelerometer and gyroscope to detect mution
- . Kinect uses video and depth cameras to detect motion:
- . Combine the two methods together to make a more robust system
- . Use the phone in the packet in place of the Wii remote. . Use its accelerometer/gyroscope semions to: aid Kinect
- . Allow players Kinect cannot see to interact with the system
- . Help the system identify players from a crowd



"Expected" layout with great image use

Modular Nano-Enabled Sorption Cartridge for Water Treatment





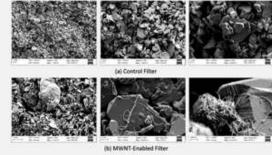


Motivation:

SOUTH CAROLINA

- · World-wide potable water crisis needs affordable treatment technologies
- · Nanomaterials have promising capabilities (sorption/filtration)
- · Lack of strategy for useful application

Results:



Objectives:

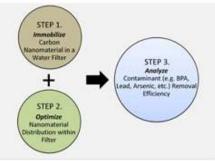


Figure 1: SEM Images

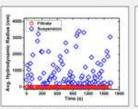


Figure 2: Hydrodynamic Radius

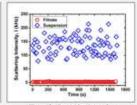


Figure 3: Scattering Intensity

Materials:

- Carbon Nanotubes (CNTs)
- · Organic Solvent: N,N-Dimethylformamide
- Commercial Water Filter

Underlying Mechanism:

Untreated Filter Surface (No Affinity)

Chemically Treated Filter Surface (Thermodynamic Affinity)



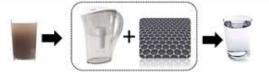


Methods:



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



Non-traditional layout

Title Names, departments SOUTH CAROUNA Introduction Background Methodology How are certain photochemical Chemists are always looking for ways to make reactions more efficient. Testing for the best solvent for reactions influenced by being That is, they are always asking, "How can we attain a higher yield of our soak loading target product suicker, with less reagents, and with minimal carried out in a confined environmental impact?" One possible solution can be found in running environment? reactions in a confined environment. By restricting the reaction site, we In which solvent does thymine not only can increase the selectivity of the product of the reaction, but Macrocycles also reduce the use of expensive, harsh chemical reagents. This concept absorbance decrease? is analogous to the size of entyres in biological systems, where erzymes drive reactions by fitting substrates cogether and thereby · Porous self-assembling reduce the activation energy for those mactions. tukal Studes monomers Benzophenone One type of confined environment that it currently being maded Macrocycle (BPMC) . Form tubular crystals employs the use of a porous crystalline tube-like structure known as a macrocycle shat is composed of identical monomers. The size of these macrocyclic monomers that compose the macrocycle can be adjusted. . Can increase selectivity allowing for control of the overall site of the macrocycle. This in turn of certain reactions provides for a wide range of molecules so nexts within the macrocycle. · Reusable Thymine Isomers 2-Cyclohexenone .Structure is similar to 2-Cyclohesenone · Phenylether (2+2) photodimerization under macrocycle used as UV irradiation hose Water was found to be the best . Thymine photodimers cause solvent candidate for soak loading. kinks during DNA replication; can · Increased selectivity lead to melanoma Data & Discussion References Loading Irradiation David, M. B. Xe, Y. Yong, J. Holtummed, F. Smith, H. D.: Shimes, L. E. "Managabiling the cavity of a porcoul material changes the phonoreactivity of kidaded guests." Chen. Corresus. 2008, 3903-3911. https://doi.org/10.1009/cdcm.36 fbag. J. Deval M.E.: Shimes L. S. "Seld-searching bit-stress managodes used as an organic receive for a highly stress selectionise phonodimentation of 3-cyclohosessore." J.Ae. Chem. Lett. 1004. 19355. 8173-218. 5w. 2006, 128(25), 8122-8123. Origins of Selectivity for the [2+2] Cyclouddition of a .jl-unanumuted Kesones within a Porcus Self-assembled Organic Framework Jun Yang, Hahender B. Dewal, Salvature Profess, Jr., Mark D. Smith, Youyong Li, and Linda Journal of the American Chemical Society 2008 130 (2), 612-621

Acknowledgements



I would like to chank Dr. Linda Shimtasfor the warderful apportunity to conduct undergraduate research during the Summer of 2010. I would also like to thank the entire Shimtae Group for their complete support and hospitality during my sine as an undergraduate researcher Finsily, I would like to give very special regards to my Graduate Mentor, Michael Geer, who guided my drough every step of this function.

guars inclosule containly loaded into the macrocycle. As is evident, or the IMAMIR spectrum, pasts for both diperime and the bestophishore macrocycle are present. The other finding is that irraditation of disyntee in the both macrocycle produced peaks on the IMAMIR.

Thyrine Loaded in MHC

Preliminary results indicate two things. One, the

finding is that impatition of styriles in the bost macrocycle produced peaks on the IH-8-PR, spectrum different from that of just thyrins. This lockses that impatition is olded of the managed produced some unspecified produces. Future work, or this study must consist of producing a more specific identification of the irradiated products of drawing inside of the macroscycle.

ŀ

Analytical absorbance study

Decrease in absorbance

was used in conjunction

with Beer's-Lambert plot

to determine a host : guest

ratio of 2.38:1

Seer's Lambert Plot for Thyrnice in Water

Tigrice is 000

Se4.

forested Tigrains and Protoproducts after irradiation



Non-traditional layout



Title

Name, Department, University of South Carolina





This poster portrays the experience of the University of South Carolina from the decision of erroring a jovernet of sculergradums research. to the implementation. Each may will be sharmed followed by lemons learned.

Witt' a Journal?

- * Petrole students and sple through to dismounresearch (complements prosentation opportunity through Disconary Elec-Cooperations distributed a chierovice
- . Publication experience reliable to complete consumch pressures
- . Problemen is probational immale not available for all students
- . Michigan and to decrease analog possess.

WHY: Now?

- . Technology advanced to meet the needs of publication for all disciplines
- Administration apportunities! imprise. staffing, and healt.

· Dynamic interface

WHY Carpus?

Wift' On line?

· Analable for all disciplines.

perform collaboration.

Constant or Broken's regularly.

Browing com key.

· Brooder authence scares, students,

prospective students, potabilial

- · Named after the type of skip med beexplorer Mageline
- "Mageline programs" is the university's michage advante renounce & beautif.
- · Research is about the promory not the detination



Literania GOddon

- Guidelines must be ducyline appropriate All submission includes written congruent. for art music media, formet in an armer's.
- statement or abstract generaling content. Numbert from addresses physicism, copyright. and congliseur leaves Chance orbitors and MODEL SHOULD
- Faculty ments approval of submission.
- . "Paper" famou to be submitted by small
- Noting owner consult encouraged

Faculty Editorial and Admining Street

- . Speed board used to pulse proposal Archeone automor schemens.
- Facility series are only
- * Provide biodhack on subsession gradelines and size souts.
- · Martist constaller cultingum and stantante.

on of Editorial Name

- · throw all subsessions within the letter or new-discipline
- · Union and reduce smooth reader (representate)
- for each columnian ("not London Lormed) · Provide publication recommendations in torus
- of teneng and doughline representations. First decision for publication made by View Permitted for Rossach.

Site Design and Development





life Constendant and Reeds

- *. They constructs that experies, III recommo-
- · Survey account the fact the last of the sale of the base of the sale of the
- Commit Management Symme (allows over updating of.) relate with amount training effections mustal contract with wall standarder)
- Placitate responsive website (adjusts for deak lapses) tables.
- Arialo arkiving flow often, nearth springs, marsh \$165.
- Nobeliable present and form tends or small?
- Suggest States Carrie for Opensach and on the homograph
- · What information speak to be available and others:

Site Devoksprivers and Bid Pricess

- * Evaluate traction to prospletion.
- * Province experience (review previous Julia websites for semperately with journal monte)
- · Courses and course coopering hids for user invertices
- Descring of stell live site temperature
- * Courtille Nette
- Site http://www.tac.edu/



First product: Carmini scient coprover. above, Carlord Swingage, Strine, Workship. page which includes the action has a value of the printer describent his work, or plained, and the administration that The Mr. said a 1884.



Moving Forward



- * Alexandre Brief
- * Two preiewore whilehold benefited to give report

The site design said reliables and

estations process record encountry for Carnel, It is

medige should never

med to produce where and when

- * Them springs: Average with never changes. accept with eager changes, or revise and
- * No decline option in this is viewed as as
- adjustment expensions.
- * All students received feedback
- · "Reported modern and incheirs requirement of additional respects torputy and or writing contra consolvation

- · Eligibility: Undergradums and our year past-graduates
- · Recent conductedly sunercy's viderparament or the homes and with
- * Copyright and restriction, submission may he published in other fewers.

Litter Plans

- Student review board (readons or sandergraduates houry be added in forum
- · Nationalises will care to webbest / database nether than by yould
- · Will our short, outrby titles to capture a breaker underso (metheling firms)

First/by and Soutent Quotes

Thank you so send for the good news you. being to [coalent] whose work it was not pleasant to supervise. I slow commend the Coronity, poundfund all others who work on the journal for having beautised such a great initiative and for contributing to the development of our students. - Faculty means-

Working with our partner and number on this. paper has been expensely beneficial for me mondenessed by its than it has given your a thorough. understanding of how to construct a peoper research paper, and working well with others to finalize the project. This experience will help not treat any good of price to probate school. -Student

- · Editors subside transcoundations for second. entirenes to Managing Editor
- . Frances automission is west to several polymer is finely same
- * Ensures automission is not and to student's support new count if testaming ammentments)
- * Short seview topes (may two weeks) and timely follow up useded to assemble editortal timeline (collisioners does not equal



Non-traditional layout

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

Art History, Sociology

Introduction

Lars investigating the cultural and architectural histories of six major hubblings in deventoors Maron, Georgia by the long-running local firm of Denrey and Denses. Though the firm produced many recognitude public and private buildings during their long coreer, no one has the coughly service the extent of their influence in Mason, Robing on a conicty of primary sources, my project assesses both increasi avaluations of the firm's work as well as the public perceptance of these backlengs over time. In the course of any respects the evolution of the firm's throughout their work on these six buildings has aligned with and been a parallel to the city's swn commercial growth. The products of this research combine architectural histories of each halding with analysis of the unique return impact that the firm and their holdings have had

Future Work

There is still so much more to be learned about the first and I hope to have apportunities to continue this research, I want to have a more comprehensive idea of the scope of their work and the history of the firm doelf, eventually attaining a better point of comparison for their work across the country and within the Middle Georgia area. As I propore to begin graduate coursework for Historic Preservation, I hope to evertually foster a carsor of high/lighting the grout stories belisted buildings such as these than so intricately shape communities.

Resources

My research corner from the first's private archives, the recents of The Mason Tolograph, and the Historical Room at the Washington Memorial Library.

Temple Beth Israel



* Construction completed in

· Designed for the oldest Assish congregation in the

. Classical details, portico, and a crowning cupole define the

enterestrical façade . Masonry and states

composition

. White stages composition subtle pilatters, and delicate stained glass line the streetfacing elevations and areate an

+ Set on Cherry Street, it binds the residential area on one end. with the civic sector on the

. Its design and langes by have Austered the organization's community involvement and become a plunical image of the historic congregation's





Centenary United Methodist Church



· Construction lasted from vaccy

\$9.9983 +Commis flatte a of Icercia congregation that started as a Sonday school.

· Highly decorative classical shetails

· Richardson-Romanosper

· Characterized by dramatic + Brick and plaster

Hts placement on a major street, next door to Mercor University, and facing public space gave the church access to the community. From here they have established themselves within the downtown area, focusing on

outreach and community They are still as active congregation in the area persisting through various aftenges in their surroundings.



City Auditorium



Contraction from 2923 -

The decision making process took nearly ten years. This time was characterized by a great deal of inslections on the location, style and capacity.

Style:

ett is Monomestal porticoed Smestraw structure 6th stop at amounting

pedestat efformes the largest elepter dome in the world Neoclassical in design Entrances line each street

·Az outdoor stage projects lines the Cherry Street elevation

Broact: The structure has been immensely successful as a locus of culture and civie gathering Disconnected attention from

all over downtown and hinds its neighboring governmental, refund, and commercial sectors.



Macon City Hall



Original City Hall constructed in other Detrois and Dennis temocations in 1935

*Neoclassical scouple front.

projects from two side buys «Mainten and street commention. Wery symmetrical, mesons

Little desoration ·Pilasters and laurel worath relative within the entablature break up the surface

Timesact:

dts ongolarity and explicit historic style convey its governmental function. Set in the same location for over a century, it has become un torer of the city. *Concerted Dennis and Dennis's

reputation for classical and givin





thy Mail your Companies

Insurance Company of North America



Constructed: *Completed in 1957

Commissioned to look like Independence Hulf. «Marble and brick, symmetrical structure skich with symbolic details and

design elements The holding site at a Coleman

-It does not fine the street, but nather looks over the entire ofti-48 is an immediately roongateable ions in downtown Macon's landscape The building is now home to



Mores Thingraph Addird NA Over Ross



Post Office



Construction completed in

Allestracted Newsbasical details characterize the impressive four Modeled after Elan Alexander's original design for

Wesleyan College, which formerly stood on the proper *Designated by a squared cupola at its top *Brick and Murbic structure

Functional post office reeds grow out of the less formul rear

"The building's referential design honors the city's history. while its Classical abstractions mark it as a modern regional. hundranes center. *Dennis and Dennis provad their skill at infasing

symbolism with their signature traditional language The buildings ideal location on College Street insures that it is still a busy center today.





Alternative layout with top to bottom flow

Rejuvenating Lime Production in Oman: Resolving Current Challenges B. Al-Yakpa C. F. M. Bad C. A. Al-Sale C. H. Al-Walindo C. H. Doubhara C. 10 MWarle 5 St Olivers 5 A. Alberton 5 A. Alberton 6 A. Alberton 7 A. Alberton 6 A. Alberton 7 A. Alberton 6 A. Al Abstract Production of lines (Little constribite) and other which came upons in Daya have been agreefuntly soluted as somet year. The production is yeld for been adultional to ries of storm and histor factor that advantly affected not growth and productively. Loss of non-reduced with finis some was 10% of that in 1000 Fig. 1, entirely the to Wester Brown Disease of Lane (WES). The device the sugmented as the Educate has present as discussed has produced by disease has produced to describe the enter appear of workers Asia and North Notes than effecting has impose to Cours or well. In Course, these positions have been wearned by accordingly described above reactions around of Worker, Area and Printit Argon files of Biology fast expects to Outs to Well. In Clear, they problems have been warranted by expressingly described above resolution of the property of the production from the early top which are, long that elisions foreign contact relation on hong partially extincted and annothered. The prognout will oblive the physicistic country of the entire of the so have directory terriors and form and optioning that production drough consequents of directed terri-Statement of the Problem 80% four in from existrated more & production Methodological Approach SR/ADRICRDROSOT

University Day 2009

www.squ.edu.om



"Expected" layout for activities/experiences



Title

Student Name; Mentor Name Department, University of South Carolina

participate create lead USCCONNECT

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 sport from many others is the dedication I put into my service work here at Carolina. I currently service as Executive Director of the Waverly Attenschool 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 bost 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. A address many grass root problems that fall through the crack's 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 tutor students makes a difference.

Waverty 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 comulates to my future career plans. Waverly embodies what USC Connect stands for when it comes to outside experiences.

and the second



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.

Community Service in Act



In my Service Learning in Seath Carolina class (Juhn 2011) we took an alternate apring break hip to Allandale, 5C. In this photo) are working to restore an abandoned from so it can be turned into an educational facility for carrimantly members.

in my Speech 140, class I was tought the skills to commerciate with any audience. In the photo to the right I am reading a book to a group of kindergarten students at an elementary action.

In the photo below I am tutoring a local high school student who participates in the Waverly Program.



Contact information

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 Waverfy center combined with my experiences. Inside the classroom helps to ensure that I have the proper tools needed to be a successful aducator.

Learning Never Stops

What I will take away from the 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! will be able to use what I learned to create a great learning environment.



Alternative layout with top to bottom flow for activities/ experiences

Not Your Grandma's Knitting Circle: Fiber Arts In the New Millennium

Student Name

Department of Anthropology, University of South Carolina

Hypothesis

Globalization has facilitated the renewed attention to handmade goods and, through the futernet, assisted in the formation of collective groups. In today's global world fiber 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 "DIY", or

Introduction



- History of Knitting

Knitting and the Internet

Goals of Study

Asheville, NC

Knitting climate Groups Studied

New York City, NY Knitting climate Groups Studied

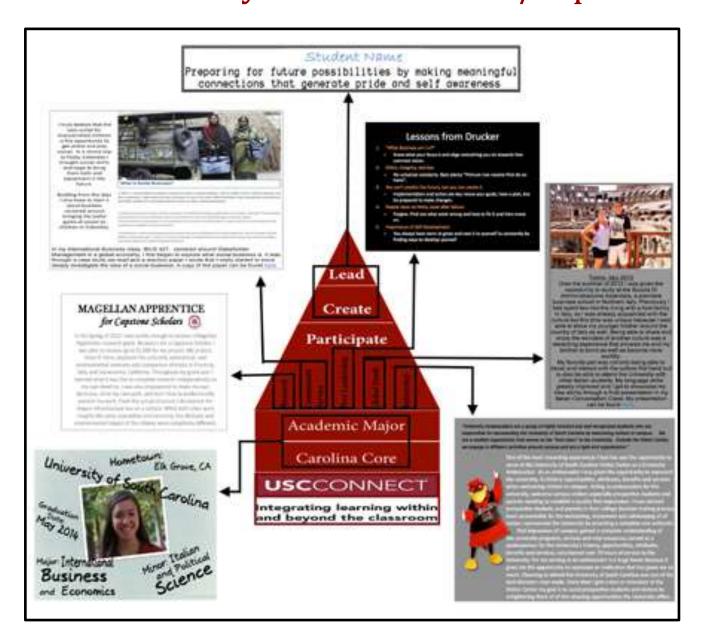
- mercing of hip and

Conclusions

Acknowledgment



Non-traditional layout for activities/experiences





OPTION to avoid the cost of a full size poster print: Create individual "slides" of information in powerpoint using the traditional sections expected in a poster; print out each "slide" on standard 8.5"x11" paper; attach to display board in separate pieces

MUST bring your own push pins or thumbtacks





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

Industrial Section

Audignoss accord (A) (II) introduction of large bases conmodel have appreciate to common behavior according to precision position of constituents and to department of a large and common contents of the department of a large and common contents of the approximation of according to the content of according to the according to the contents of the contents of a large and according to the contents of the contents of the contents becomes and the department of the according to the contents of the con-

para frequency animality primary primary for the shifty and primary of incomes developed, referency from primary of incomes of parameters for the primary for the shifty for the shifty between the primary for the primary for the shifty for the primary for

Previous Findings

Will Resemp and District Institute Parameters Following SADRS and Highs: I We Server Ferrers, Districts: I rejections.

Personal distiller hand that offerings spit SACM person became and audit supplements which the horizontal of a count communication of the count communication of a country from two a marginal decision in a country to the country of the country of

Wethod:

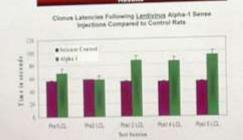
And the contract of the contra

THE RESERVE AND ADDRESS OF THE PARTY OF THE

THE RESIDENCE OF STREET, STREE

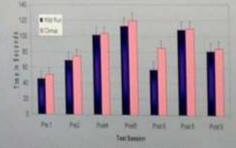
White Street, N. Add and Address of Principle 24 April 201

The second second second



Framery with network Critics in Engineers parent for applicable pharges in Services 50 onto present, the service 50 onto present published your plane of the Services 50 onto present published your plane of the Services 50 onto 50

Wild Running and Clonus Latencies Following Lettlerus GAD43 Serve Injection



The state of the s

Diagrams and Figures



tempored (SE4)



- The central market of others controlled (CMC), bruster or the ordinary region of the last board.
- E. Organización (S-gal) escring abous Alpestos vin la resolar certain habitas el light C por lessing les

Conclusions

- Province dairy vincend that birelainy GADGE or GABARNI's agreement invitewes translated and while coming and district in normal endown remitted left. Alan, ordering horses GADGE, expression, agriffmently relative the minimum of strongs as primary post-testing in normal entower obtained in the Eshaning horses GADARNI's making the landstress of wife having in primary yout being of normal entower resident relation.
- Estimating betterms in 1 Augments significant fortunates the lateralist of circuit during posttacting. The cornell forcings of closes was marginally reduced.
- A Leptonia for with two with different immensional enginificantly in just treated with a GACHS person furnishing injuries. On Supario secults also advantage a superficient decimants in with reporting and districinculation februaring their rejunctions.
- A This research designative that introduction was account authorize the CAEEA system of the caeeas application of the caeeas applications of the caeeas and applications of the caeeas and applications of the caeeas and the caeeas are also research to caeeas a product of the caeeas and the caeeas are also research to caeeas a product of the caeeas and the caeeas are also research to caeeas are also research to caeeas and the caeeas are also research to caeeas are also research

References & Acknow Agements

- 500000

- No. 5 C. S Concer 15 1 Accepted making in Supplemental prices 2 area of Speciation
- The second secon

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



- YES, you can have a laptop or display WITH your poster.
- Tables ONLY provided if requested with abstract submission.
- You may only use half of the table (the area below your poster).
- · 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

#3

What information is CRITICAL to understanding this message?

Include ONLY message supporting 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 (Slide #10)

Stay message focused!





Planning: Mapping Poster



Map your outline into poster format on paper

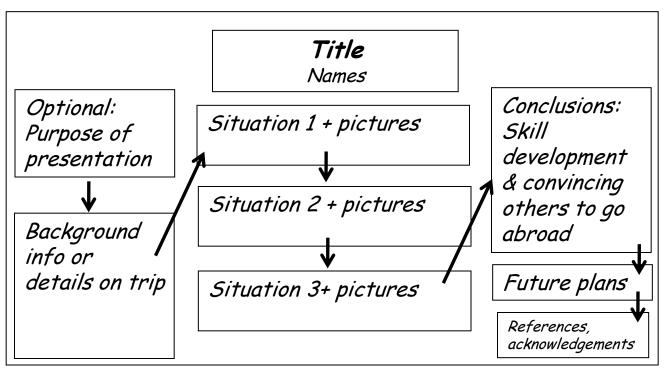
Review critically; focus on the message!



Planning: Mapping Poster

EXAMPLE





Review critically; focus on the message!





Planning: Resources



- Creating Effective Poster Presentations by George Hess, Kathryn Tosney, Leon Liegel http://www.ncsu.edu/project/posters/
- *How to Write a Research Poster* by Lorrie Faith Cranor http://xrds.acm.org/resources/how-to-write-research-poster.cfm
- Building Your Presentation Poster by Dr. Linda Vick http://www.npuphysics.org/resources/comp/building-your-poster.pdf
- Poster Design Resources: Design & Presentation by UNC Health Sciences Library http://guides.lib.unc.edu/poster_design



How To:

Creating your poster





PowerPoint Resources: Web links

Poster-making 101 by Brian Pfohl and Greg Anderson, Bates College http://abacus.bates.edu/~bpfohl/posters/

Designing Effective Posters by UNC Health Sciences Library http://guides.lib.unc.edu/posters

Creating a Poster in PowerPoint by Eastern Michigan University

http://www.emich.edu/apc/guides/apcposterpowerpoint2010.pdf

Discovery Day Poster Size (MAX): 48in (H) x 42in (W)





PowerPoint Resources: Video links

YouTube videos: Creating posters in PowerPoint

Creating posters using PowerPoint 2010 (part 1 of 2)

by University of North Carolina Chapel Hill Health Sciences Library tutorial https://www.youtube.com/watch?v=0xBQ1F4EMyE

Creating posters using PowerPoint 2010 (part 2 of 2)

by University of North Carolina Chapel Hill Health Sciences Library tutorial https://www.youtube.com/watch?x-yt-cl=85114404&v=4rekTy8iFbk&x-yt-ts=1422579428

Making an academic research poster using Power Point

by Jerry Overmyer (Mathematics and Science Teaching Institute (MAST), College of Natural and Health Sciences, University of Northern Colorado)
http://www.youtube.com/watch?v=MqgjgwIXadA

Discovery Day Poster Size (MAX): 48in (H) x 42in (W)





InDesign Resources: Video links

Creating posters in InDesign

Create professional posters using Adobe InDesign by University of North Carolina Chapel Hill Health Sciences Library tutorial http://guides.lib.unc.edu/c.php?g=8592&p=44030

Discovery Day Poster Size (MAX): 48in (H) x 42in (W)



How To:

Details: Making it GREAT



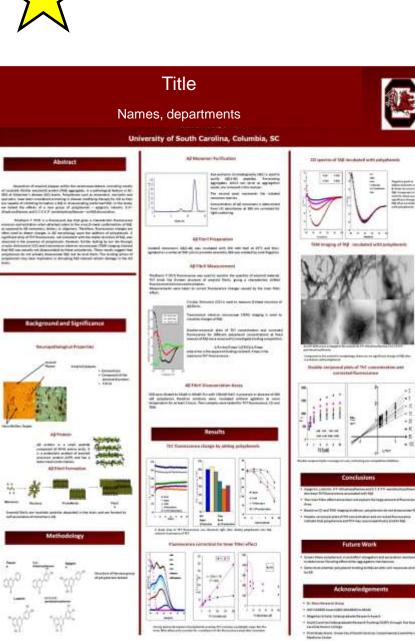


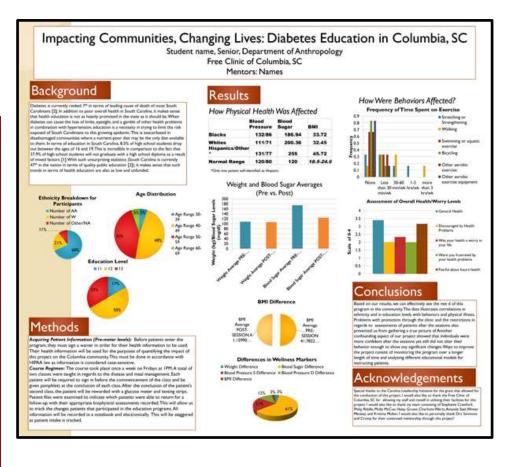
Guidelines: Color

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**.







GOOD:

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

BAD: text small



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-byside, making text difficult to read:

Headache

Yikes

OF SOUTH CAROLIN



Impacts of sea-level rise on Seattle, WA

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

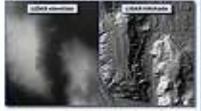
Introduction

many the starty transaction of places asserting, write over teath the solution Options people and their convergebox. Order-tracking the trips in the trips in the property of the contract transfer force on their threats assumed to or there transmiss brought the war of a group spine information spiners. Street, species

- then thank and ad afficure property of the food the displace it as
- their stat 7th compat Autoprocessors what private being promise a management commercial resource of

Date

Description of the Control and Associated Street, and Associated Str motels arrest digital absorption methods available with technolist great writing workshop properly of magnification below that the observative party effective extra The Technol S is consider 5 for the end of the observation of the entires and an electrical training. The submatricists has an with precision (for free) is of the print.



has be the assumption which does a chose the treat Govern study were as a result of the entertoin and finally available Lifetiff lade all flow the Figel Stand LINE Consultation The SQUE provious restal and the b Section 2 in the Contract of t

because for the seminated of transplant store of tracking cone. more day become vegotowing beautions of all tree

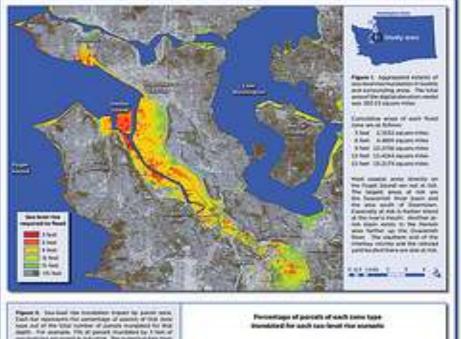
Methods

- Make althoughout data represent their beautiful and could be received from temple must be about to exercise the production about at high bids. that of pour but was control opposed the cond of \$ 1000 but

- Descript (Maximum Insuger) the a bright digital insulator main Stine for Swiger Swiged Plan Highers SHE, replies with enabled hore the total representing the transpose enemaps at the highter is it, it, it, it, and its floor publication from more may now heapte of its more many.
- Comp Hoster Editionals, or appropriate contraction and representing the number of trade-than investment terror transfer a plant and. This sets with a value of 5 weeps the following the british of this with with a refer of 4 weeks for families by \$ fact of the west or the

- Experiencial and residency agreed ago, more proposed and particular This of communical parties and MPs of recommissioning makings.
- Long Edited Vision to Horse Red, vision 45 ft Post the appropriet NAMED OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.
- tone, benine'er becker, latter mumorating the exister effects tope of parties in each recolumn close were given that

Results

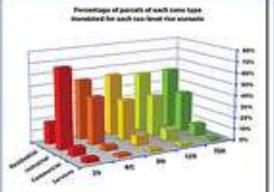


productive are provided by the order from the property of the from principles and principles are before the trade and declared The self-layer by the assessment to the market of barrells

Employing Subst. Which are generally made up of a photol more of challe ballets, we Drawfure their to author Mind speci, Afficiagly a strop product using scanned sour array of his house, in the dependent recently much sold had to relatively suchs. The secret is provided, in the case of space temps, call at the func it is great situative would recovered for President by con-mon that I the cost of securities have the recovery while it specificates have No project to model white. The tex supremet white of could be form over one by agreed

purphyse, the stocking process shapping, foreignly, frames of secting articula, and the parking little, creating, and Restore.

	-	-	-	-	-
-	\$400	4000	MENTON:	and the same of	- 60
***	100	DOM:	DEC.	Dec 2004	-
***	W-100	interes.	CONT. CO.	my ode	-
wee.	minute.	100 (100)	200	800,000	: to
-	prom.	Arro Great	-	200 0.00	191



Discussion

hard streets on the stant African Security on product production of a social. He pied revealed to be used they were reversible a sort of emis from the spread standing. If it enables that the statute southers toron in flow area, his disturb charactered physicis and distincpositively about each their but it person has been at profess.

The their notices in the company the hospital about the state of a month or property and the company to the company that is the company that is the company to the company that is the company to the company that is th station betty effect large coapes of level by only a healthal place the hopf if the new The laying both whom the marginal will of our both one founds free book sear & between its and one fact. The movement from the site or and discretized discretized to the property the state of the Harriers and Budgetty, or self-activating field unbeing representation great. As the more build above purions recount which with Street Sales, Supera distribution between present a secondary of the write in Northe, where you have his or to have or should have from A SINGLE AND REPORTED

Designation of Femalescope Species

of their fact of warmer too, helperty parties and the result surrentless Plant of the car be attributed to realize stated a manchese select as the rise's reads, sharp many uniform property provides balls, and period soresponsor has been a the branching

All player places from all you become to a participating of existence parties depend at mandertier autoproteen all when person. It should be noted Statement, Park Till St. probably that eventuring payment being printing an

All this best of the best that the desired part of the state of the st extractorization. The electric fruit of the selections about about and at assertions made facility if you but

Their is her y convenion about any production price with after so had of makings shall. Fire his programme for conceptance and him then missed the appropriate positioned misselfs to different sources.

Conclusions

bor-tractions of physicage and tracked the boatte prop, directably traction than Street Stand, Stallastical Arrain and South Sin Street San Standards. Int. Stallastic. place that they led, the travel it have been deleted between relative permission and recipients particle

The American Arthurs and piles has affect on the few productions and other the trapelline of such product and the parameters have still positioner meet aspect on meutic focusion register while more black great filters which a good a row-or architecture of mounts Section of the Parket

peaks around previous further insight sitts thin bapts: Taken that humans of effected code varies proving about the month of providing approving electing's as if union attentioning regime an even products at there he means it no helpe

Acknowledgements

ium Cahot: - Brown Groundy-Sift Spean Manager for the e-least protects been been belongered.

USAN Division - Papel Street Little Comprises. dates a little foundy limportant of transcentra-

Seconding Street index - EDR Streetings Streetsum defearagely - Landout Clim- out that State Sentate Survey. Continue - Dischargion Sale Dissertment of Tomosofution Acres 6

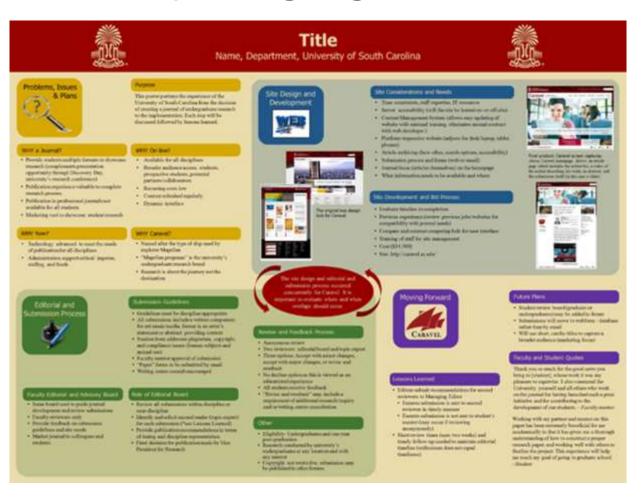
MARKAGE AV

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

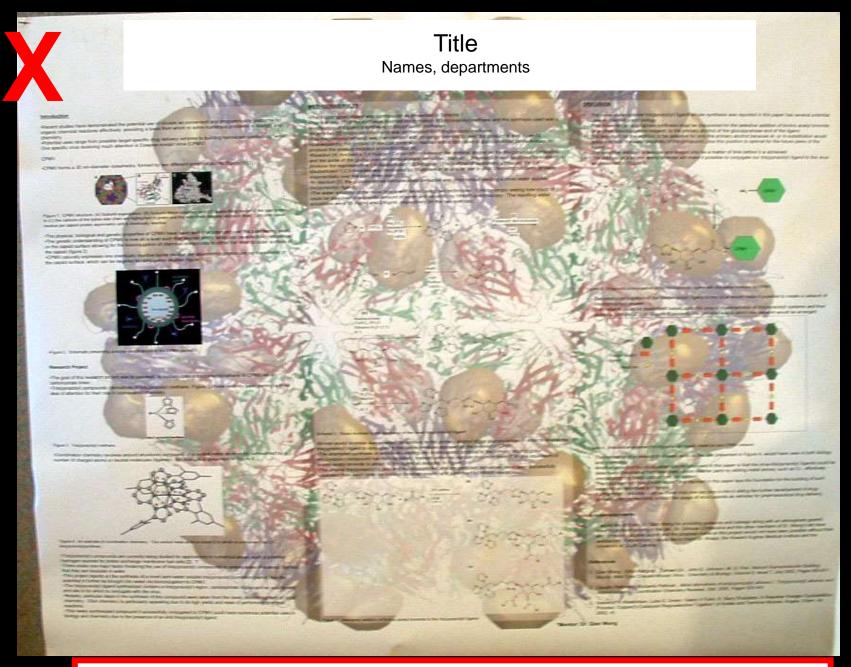






Guidelines: Color

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.

Siny & 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

Treatment

Prenetal and postnatal alcohol exposure administration was done via intrapastric intubation (see table below)

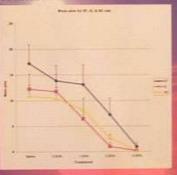
	Treatment of Dams (GOT-Birth)	Treatment of Pups (PD2-PD10)
Triangle (mining)		

Procedure

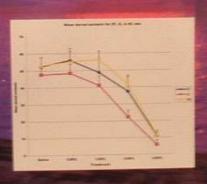
Two males and two females were used from each litter. Rats were weared at postnatal day (PD) 21 and housed separately at PD 27. On PD 32 to 54, rats were habitusted for five minutes to play in an isolated area. On PD 35, rat pairs began testing. Five doses of sylocaine, a local anesthetic, were used 0 00%, 0.50%, 1.00%, 2.00% and 4.00%, 2 mil were administered domaily in four places, behind each ear, and laterally at each side above the riboage. The treatments were adminished in randomized fashion over five days of

Results

The amount of mean pins for each xylocaine treatment it the ET group was significantly more than the IC or NC groups except for 0.50% 8.4.00%. These data are collapsed across 2.50%.



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



Conclusions & Future Directions

The data at this point suggest that the effect of xylocaine treatment did not interact with group. This suggests that the change in play behavior seen here in ethanol-exposed rats is not a function of somalosenous 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 entianci-exposed rate are more motivated to engage in play behavior, are more sensitive to play initiation by another around, or are more likely to exhibit play responses. The lack of differences in donal contacts across groups suggests that their are no differences in play responses and the lack of interaction behaves group and xylocaine dose suggests no differences in sensory serrocurity to play initiation. Tresetion it may be that motivation to play is aftered in alcohol-exposed animals. This suggests that alcohol-exposed animals. This suggests that alcohol-exposed animals motivation during the juvenile period. FAS is known to increase the likelihood of impulsive, and subsequently delinquent, behavior at least to make Chemitaly et al. 1994), and this may be due to changes in motivation.

References

Section 2 of the second section of the section of the second section of the section of the second section of the section of the second section of the section of the second section of the section of the

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



Names, departments



Introduction

Wireless Networks

- . Wireless networks are expected to be available and reliable at all times and all locations
- . Environmental conditions. His walls, weather, and large crowds cause problems

Smartphone

- . Smartphones have a variety of sensors built into them that can gather information about the surrounding environment.
- . These sensors include accelerometers, compasses, light detectors, and proximity detectors
- . They also have will radios and GPS

Gosts

- . This project aimed to use the readings from the sensors to detect situations that will cause reduced signal strength
- . It may be possible to predict when the user is going to have poor reception so the phone can plan accordingly

Other Work

- . Anumber of other projects are underway that also make use of the sensors available on smartphuses
- . Mobile Assistant for Insthernies Drivers (MAIE)
- . Increasing the reliability of natural interaction systems such as Microsoft's Kinest

Methods

- . An app was developed for Android phones that would automatically collect data every 15 minutes
- . This interval was chosen to halance frequency of collection with
- . The app was allowed to run constantly on the user's phone to collect data in real world situations
- . The app uploaded data after each collection to a MySiQL database

Data Collected

- . Data collected included: time; proximity, hattery level, location. cellular signal strength, and will signal strength
- . The data were downloaded from the database into an Exall spreadsheet
- . The correlation function in Excel was used to determine if acceleration, magnetic field, proximity, buttery charge, or light appeared to have an influence on cellular and will signal strengths
- . The data points corresponding to will signal strength were plotted on a map and color coded to indicate the signal strength of the University wireless network, "ascstudent" at that location.

Results and Discussion

Accelerometer

- . Collular Strongth, 0.146
- . Willi Strength: 0.068
- . These low correlation values indicate the absence of a relationship. between acceleration and both cellular and will signal strengths

- . Cellular Strength: -0.123
- . Wifi Strength: -0.022
- . These correlation values were even smaller than the ones for acceleration, so there is again little evidence to suggest a relationship between magnetic field and the signal strengths

- · Coffular Strangth: -0.302
- · Wifi Strength: -0.289
- . These values are much stronger than the previous two and are the atronaust observed.
- . There is a possibility of a slight negative correlation.
- . The relatively strong correlation could also be explained by the phone being in a pocket versus in the open

Battery Charge

- . Collular Strength: -0.291
- · Will Strength: -0.195
- . These values are weater than the proximity values and slightly
- . There may be a negative correlation between battery change and the signal strongths.

- . Celular Strength: 0.205
- . With Strength: 0.017
- . These values were opposite the proximity values and much weaker
- . This difference supports the possibility of being in the pocket reducing signal strength and being in the open increasing it

Figure 1: Wiff Map

- . The map reveals the clustering of the data points
- · As the project continues, a more even distribution of data points will
- · Will signal strength appears to be stronger inside than outside



Arena for Research on Emerging Networks and Applications

Wifi Map





Ortail of LeCoste



Octail of Swearingen

Ongoing and Future Work

Signal Correlations with Other Sensors

- . Use newer sensors such as avroscopes, barometers, and
- . Collect duta in diverse scenarios using multiple phones

Mobile Assistant for Inattentive Drivers (MAID)

- Link the phone to the car's diagnostics port to get real-time stata from
- . Identify the fingerpoint for each event, and create the abstract sensor modules
- . Keckless: detect reckless driving
- . Spend: detect when the driver is going too fact.
- . Turn signal detect if the driver properly signaled before turning
- . Stop: detect if the driver obeyed a stop sign
- . Lost detect when the driver appears to be lost
- . Neid detect if the driver properly yielded at a yield sign
- . Clog: detect if the driver is causing traffic to back up behind him
- . Drunk; detect drunken thiring
- . Lanv change: debet lane changes
- . Identify additional situations that might be detectable using the phone's sensors

Enhancing Kinnet with Smartphones

- · Wil uses accelerometer and gyroscope to detect motion
- . Kinect uses video and depth cameras to detect motion
- . Combine the two methods together to make a more robust system.
- . Use the phone in the packet in place of the Wii remote.
- . Use its accelerometer/gyroscope semiors to: aid Kinect
- . Allow players Kinect cannot see to interact with the system
- . Help the system identify players from a crowd

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.





Studies show that serifed fonts are easiest to read for long blocks of text.

Limit yourself to two fonts – generally 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**!!!!

If your work depends on illustrations but you can't draw to save your life, make friends with someone who can or do without.





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



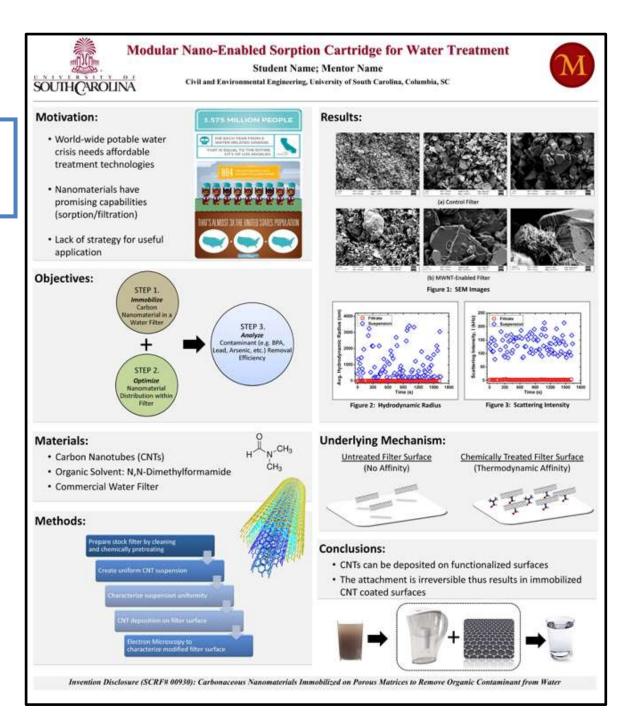


Guidelines: Aesthetic

Simplify!



Excellent example of image use and extremely limited text







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 under "how to": http://www.sc.edu/our/discovery.shtml)

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





Formatting and Printing (1 of 2)

Poster size (MAX) 48in H x 42in W (not a typo!)

Contact the printer BEFORE to confirm printing requirements, issues, etc

Where to print - Columbia:

- USC printing (COUPON!) http://printing.sc.edu/
- $\bullet \quad CAS-Gambrell\ Hall\ {\underline{\tt http://artsandsciences.sc.edu/technology/computingcenter}}$
- Marine Science ask in department
- Engineering and Computing? Ask student services or the computing center
- Honors fellowship recipient? Contact Susan Alexander
- School of Medicine http://dba.med.sc.edu/price/irf/PosterP.htm
- FedEx \$\$





Formatting and Printing (2 of 2)

Where to print - Aiken: (3 options, ask mentor)

- Biology/Geology department: Students mentored by Bio/Geo faculty print for free, others \$25 per poster
- Instructional Services department: \$35/poster
- USCA Operations: \$25/poster

Where to print - Upstate:

 Contact Adrian Hayes (AHAYES@USCUPSTATE.EDU) for options

Where to print – All Campuses:

• USC printing (COUPON!) http://printing.sc.edu/





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!



#2

Consider Audience

- Be prepared to talk with experts and nonexperts
- 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!



#5

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!





Presentation Resources

Creating Effective Poster Presentations:
 Present Your Poster by George Hess, Kathryn
 Tosney, Leon Liegel
 http://www.ncsu.edu/project/posters/PresentPoster.html

In video form (this is great, but a little long): https://www.youtube.com/watch?v=vMSaFUrk-FA

 A Guide to Presenting a Poster by the Cain Project in Engineering and Professional Communication http://www.owlnet.rice.edu/~cainproj/presenting.html

DISCOVERY DAY

...a forum for student ingenuity!