

April 28th Events

- Arts Convocation 10:00 a.m. - 12:00 p.m. in Evergreen
- Arts Session on Campus for Center 3:00 p.m. - 5:00 p.m. - Sports Forum of the Branch
- Arts Session on Campus for Center 3:00 p.m. - 5:00 p.m. - Sports Forum of the Branch
- Arts Session on Campus for Center 3:00 p.m. - 5:00 p.m. - Sports Forum of the Branch

n r r u t s r n C r t v A t v t p o s

Schedule by Division

Date	Time	Room	Session Title	Departments/Programs
Urban Studies				
ns Apr ↓	00-30 p. .	Ev r r n 0	rb n S u s rb n n Co unt V t j	rb n S u s
T urs Apr ↓	00-3 p. .	Ev r r n 0	rb n S u s rb n n Co unt V t j	rb n S u s
T urs Apr ↓	00-00 p. .	Ev r r n 0	rb n S u s rb n n Co unt V t j	rb n S u s
Social Science				
Fr Apr ↓	30- p. .	C pu 0	H no r p t V o	Art ropo,0 So o,0

Wednesday, April 26

URBAN STUDIES ORAL SESSIONS

Urban Studies & Urban and Community Health I

5:00-7:30 p.m.

Evergreen 202

5:00-5:15 p.m. *n s nto ost In ustr E ono . F n z / 1 o* *or st Curr u u n t*
Contr t ons n Co n ss

Michael McCanless

Faculty Sponsor: Elizabeth Thomas, Urban Studies Program

6:15-6:30 p.m. *You Grow Green: Community Development Project*

Becky Kempf

Faculty Sponsor: Elizabeth Thomas, Urban Studies Program

Community Development Project: A Case Study of Urban Agriculture in the City of Chicago

n r un r o o s r n v s it pro sst t usu sto n ono so n orr s it of
n bor oo . p s s s o b n r n v s n n r v p p n n n bor oo sto o btt s
prob s. r s r s b n on ut n n or t s rosst outr v r r s r s b n
on ut n p stos ovt s n n n r r t on. t r r n o ontr n st t s n
n bor oo s nt pro ss of r r f n or s r r f t sso unqu r t r s t t n
o f o v r r f t on sop r t n s s u v p r r n t ono n r s its nt
n bor oo s of v t on Squ r n B n p on Co unt sto p un r s n v p s s r r f n
n o v s o r s of Ct of p s r on ut n t v or t t o s r t ot. Sp i t v
n or p n s o i t n bor oo v n t r r f t on n r vt j z t on f f o t s s v

2:15-2:30 p.m. *I p to str tv A_ort on o on o nsA ssto t r pro ut v H t rv s*
Jessica Ealy

Faculty Sponsor: Peter Hossler, Urban Studies Program

T oit s su sto n ovr srtv bot on po_ nt ont oit sou rn nt S t s
p ts wo u s ss of d r pot nr pro ut v t s rv st rou r v w oit j rtur
b rr sr jt to b r pro ut v t r n bot on ss w r it f s uss n jt ru jz to
prop r j n jz orr jt on b w nr srtv bot on j w n wo u sus of r pro ut v t s rv s.
A t on u s v r j sp f r srtv bot on po_ s nt r it r fi ts w r us nt f n j n j s s.
T s w s surv s u n w s p j of wo n w own r w it n bot on t sou rn bot on prov r
ff t b r srtv j w w r s qu s onsr r nt rus of d rr pro ut v t s rv s . f j
p j n n s rv s n r n s r n n onr p on s rv s t . post bot on pro ur .

2:30-2:45 p.m. *o n. HI n p s. Cos n t G p l In r sn rE s*

Nicole Quinones and Peter Hossler, Urban Studies Program

Faculty Sponsor: Peter Hossler, Urban Studies Program

t r it nnovt ons n pr v it on r w r on s p ps rt o pr v it n n n r s ntr ns ss on
rt s. v nt sp rt of on popu jt onst on j p ruv or pr - posur prop j s
rE n b p i u j o o j n i ut r pr v it n n w nos. os j rtur surroun n rE s uss sts
fo us popu jt on roup s n w o v s w t n S trns n r roups n o unt s bro n
A ir . nt S it r S s wo n r os trs for onr t n v v t ros u j on t t s fi ts
A ir n A r n wo nt u rrt t n n d rr . At on us b t nto u t wo n n
prov t w t t too j sto p r d tt s j w purpos of s r s r st of nt b s ports of
it rv it on n wo u sr pro ut v t j n n p st t n j t s n r s n rE up .

2:45-3:00 p.m. *Art sts s A tv sts. An Esp or t on o n A tv s tr n p nm ss*

Brynna Newkirk

Faculty Sponsor: Elizabeth Thomas, Urban Studies Program

r r j now n st o oit Bus p s s o to n rr of p j w r ts pots n - rs
w o r f t n n s r j or so j n us st rou ou s or t tr s b nus to r s sr j n
so j us ssu sf n so t o n p stop sr n fro po j br u j u ntr ff n
pov t o j ssn ss s u j ss ut u t on j n qu j st . s r s j n roun t it rs t on of
t tr n so j us n p s nt s s u w s to i j p s s u us s s - s r ut ur
it rv w s on it n j s s n pp n toun r s n ow p s t s n t v s p t pt n t v s
t tr . o j o unt t s s prof ssors n t v s r it rv w bout r w or to t n n- p
un r s n n oit r o s. A t on u n n r t v ps ow s s w r t s w or s b n on roun
p s. u t f i n n s oit s r s r w j j w o s nt surroun n p s o unt to
it r t f u w t t t s - t v s st rou un r s n n w n ow t s - t v s r us nt s v nu for
so j n n po n tt u n st f w n j n j t bou s it j n t s s of
oppr ss on.

3:00-3:15 p.m. *p s n s v . us n n vt z ton ro 9 991*

Ashley Dill

Faculty Sponsor: Elizabeth Thomas, Urban Studies Program

n j s p t p s n s v j s rv st j r s t ropo t n r s n n ss s v j st
t rv n o m pt j t n p s son of n s or s or j nt row n r t b d oit s
t s v b n n r j ns p nt it t of n n ss nt Sou w t t rr s or s n v j r ts n
us r or p j ps n ss n s j r s or s u it o qu s on ow n w t v v r on
ff r it pt s. Ait rt ps n of s or s nt t of E j v s r s j nt j t s p s w son

n stob or tt it onp to ov t o sto p s z t n or s n to nor d rs. Fut ur
\$ u s s ouj ont nu to po t t sof ff r it s z s n r jt ons pst o or .

5:45-6:00 p.m. B Gr / t r r n z t o n s o B tu nt A t v s

MaKenzie Mosby

Faculty Sponsor: Elizabeth Thomas, Urban Studies Program

o s so j t ns pus j t n nt rou out Cs n r s j v s of s u nt t v s .
A t on j j ur nt st pro t wo of t four B j r j t t r o r n z t o n s ur r it j t r t o s
Co j j n p s t j j r t r n n T s pro t ns f t r s or r j t on b t v n
t t r n of B j r j t t r o r n z t o n s n o s pus j t fro to T s pro t j o
t s s or j j po t b j s u nt t v s on o j j pus s i r o 3 nt foun n of t B j
r j t t r o r n z t o n s t v r t r t o s u s n r v j r s r n n r v v s. j t j t s
pro t v j j t r n f B j r j t t r o r n z t o n s v r u s s v j of b j s u nt t v s t o s
Co j j .

**6:00-6:15 p.m. F r Hous n . A tu o D s r n t o n F t / t n s I r n t s t n t Hous n tor
n p s**

Mira Patel

Faculty Sponsor: Elizabeth Thomas, Urban Studies Program

T s r s r p o r s t s r n t o n n n q u t t t t n r i t s i nt f i r o u s n s t o r n
p s t t n r i t p o p u t o n n t s o u r o n s r t j p n o v r t p s i v s .
t r t u r s o v s t t t n p o p j i u n u j s r n t o n n t o u s n s t o r v n t o u f i r o u s n j v s
v b n p j i t o p r o b t s r n t o n b s u p o n r r j o n n n t o n j o r n n o u s n .
V o v v r t r s s n i t p n j r t u r t t s s j t o n t p r n s o i s r n t o n i b t n
r i t s s p j t o s t t j v n t s o u r o n . n o u n t j j s r v s p r o v f r j j
v n s r v s t o b r s o i t t n o u n t t t n n d f i o r t o p p o i t j v r s t o r s s
s r n t o n t t t f i n o u s n T s s u s t o n v s t t n t u r o i t s r n t o n t
t n r i t s i n s u r n o u s n n p s b s n j o j o u n t j j p t s n j o j t n
t v s v i t o r s t p r v s v n t r t s n i j n u p o n o u s n s r n t o n n s t t n
r i t o u n t .

**6:15-6:30 p.m. F n n B Ho . F a os o Ar Exp r n n Ho s s n s s n o H v nt
I n s s**

Annie Leonardi

Faculty Sponsor: Peter Hossler, Urban Studies Program

b n r s r b s n t o p o r t f o j o v n q u s o n s V o v n t o s p r n n o j s s n s s n
t o n t o i t j j n s s b b t t r s r v n t r s o i o u s n t s b n o n t o j v t t r s p o s
t p p r s t o b t o f f i t v s r t t b r r s s f i o r s r o n r s r v s v r t p s i v o r t s
v r s r s v r j n o n t r t o n j o u s n p r o r s s u s v o u s n F r s t A s s t v C o u n t T r t i t
A G r v i t o n A s s s n n T p o r r v o u s n A V n S u p p o t v v o u s n . A G n A V r
s u p p o t v o u s n p r o r s t t o p r t s v o u r s f i o r 3 s r n r s f f b n
i t r t t o f s n r s p s t r s s n u r s s n p s o o s s t s r v t p r o v s t r n o u s
o r o u n t t r t i t . S o j n j u s o n n s o j p t j u n n t v o r s - r o i r t p o t n t o t s
p r o r s . S o p r o r s v n o p r r q u s t s j s o b r t n i t j j s b j t . E s b n p r o v n t o
b s u r p r s n j f f i t v n n r s n o u s n t n u r n s o q u j o f j i . v v j u t t s r n t s n
j j n s o i p r o r n t r s o i s u s s n r i t r t o n b i t o s o t f i o r o s p r n n
o j s s n s s n v o v o o u r n i t j j n s s .

3:45-4:00 p.m. *You n B A ow n I You Ar nt ot n or H r C nton . An Esp or t on o
Cons rv tv I oo nt Countr us In ustr*

Jolie Grace Wareham

Faculty Sponsor: Renee Johnson, Department of Political Science

T s nqur s sto ppr t nd ont t ourr us s ons rv t v s w d st t ons b t ourr
us n us r to t r it n or sp f s nd ont t ourr us s ons rv t v T s u fo us st
w n n son s of t w o ff r it ourr us w r

3:45-4:00 p.m.

Ethnography at Home I

12:30-1:15 p.m.

Clough 204

Moderator: Susan Kus, Department of Anthropology & Sociology

12:30-12:45 p.m. *Ins A v rn*

Lisle Bruns

Faculty Sponsor: Susan Kus, Department of Anthropology & Sociology

rop r t no r p ↓ o v s t s u s r s t o n n u it pr ss on of p t u ↓ r t r t sp T s t o n d
on ↓ o ↓ s v ↓ u n un no v n for n u ↓ u r s b u ↓ so n or f ↓ r n r ↓ o v r p o or un p p r t
s t t n s. no v n t s t u r n it ropo p ↓ f i o u s t o v b r ↓ A ↓ = s v r n n p s
T n n s s T r s n s t t pp ↓ of A ↓ = s

Ethnography at Home II

1:30-3:00 p.m.

Clough 204

Moderator: Susan Kus, Department of Anthropology & Sociology

4:15-4:30 p.m. For port or p ? An Et no r p tu o Bow n A

Colby Denesuk

Faculty Sponsor: Susan Kus, Department of Anthropology & Sociology

Bow n n b b o ptt v n su j prov n n n t n n pr n for v r bo . Fro ut rot
tourn nsto s b f p t s bow n st Sw ss Ar n f " o i A r n p s s. H no r p s n
n ropo p j t o o i obs rvt on v t t n i o u s v n u t u r j r s o n b n f t o i n
t no r p s u s r j t v j non-b s t n- p r s p t v on t n u t u r . st s B j
V r w s A j S r n s p t n E s p s. Dur n t t t s bow n j v obs r v n d on j
t n r b j n r t st n bu j s o t s f i w o u s t r t o v o v r w j st rou t f r o i t o o r t rou
p t p n - o b s r v t o n s j o i t n o r p r s r v j r n b o u w s o n p o p j o o s bow n
st r i v o r t p s . Fro t s i u r n t u r o p r s s n s o b j s t o t n u r o u s j t - s r n v s
s t o i t t bow n n i f s s s n r n t s p r s n j t n f i t u r s t s p t o n s
b j t o o o t n p r o v i u n p r n f o r t r j n b o . A f j o w n b u s n s s i o r o v r t t
r s B j V r w s A j S r n s p p j s t o j n r t o n s .

4:30-4:45 p.m. t r s v s z n r s t n n p s t L o r n C u t u r n B r n D o w n t s n
t r o t p s

Reggie Eskridge

Faculty Sponsor: Susan Kus, Department of Anthropology & Sociology

n o r r t o v j p b t t r u n r s n n o i p o p j b j o n n t o f i r i t b r o u n s n u t u r s t r s t o b
n f i o t t o n r t v t n p r n t t u t u r n o i t w s t s f i o t s o p j s s t r o u
t n o r p w r r s r r p r n s t u t u r n o r r t o b r t p b t w n t f j r n t
u n i j r . F o r t s t n o r p s u v s t o b S t p r p t n t t o w n p s n o r r t o
u n r s n s t b o r n u t u r . n r t v t t p o p j w o r t t p r n j m o w t o r
s t b o r t p s j n v o j t t r j u t u r s u s f i r i t t p s o i b o r s n r n t
r j t o n s p s t t r v j p t r o u s t b o r n t t t n b o n t p r t s j . t v o t o j m
s t t s t n s f o r n o n w o s i r s . A t p r t r r w s p o p j w o r r t o v v n
j p o p j p u s t s j v s t b o r r s r o i n o r s u p p o t v o i d r s r t r t n u n t j . S o f

... to provide information. A total of 150 copies of the
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12:15-12:30 p.m. *Entrance to the ...*

Roz Kenny Birch and Maddie McGrady; Jeffrey Jackson, Dee Garceau, and Seok-Won Lee, Department of History

Faculty Sponsor: Seok-Won Lee, Department of History

... from the ...
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p r t rs n ut wo rs. n n n t s

pr n s r b o o f o s os b o o f o Fo v n S it Evt b T o s E p
t n z n t t r t n t o f o ont s n t n q u s ont T s t r nov s s usst s or
or Ar n n b t v n n . ov r t o u r s o i o t r s o s Fo v n t n z
o b n i t o n n n o n - i t o n o u r n s n n r r t o n t o t t s or o i Ar n n A i r r n t t r
nov s n s u b s q u i t t s t s j r t t t n s s t o i o b n n t n q u s o s i r o t s r t o b s
s r b t o i n - u n n b j o r r o r s o f t s or o i Ar n n j n t n A r n o u t r s n r t
s o j or . A j o u t s t r nov s o n s r t o n i j t n v v s o n t s n t n q u s s u s j s s
n t u s o f n j z t o n t n r p o j o v s t u o r s t o r t n d o n j t u r t o u t o f
Ar n n s o r t t s s s b j t o t r r .

Spanish Senior Seminar Session 4: Spectacles of the Southern Cone dictatorships: theater, rock and soccer

4:00-4:50 p.m.

Language Center

4:00-4:15 p.m. r n u t o n s r u n o s t D t o r tr . A n o n D t n t
n Ar Dor n

Miriam Maloney

Faculty Sponsor: Alberto del Pozo Martinez, Department of Modern Languages & Literatures

Do s p r s o n r n u n i t r v n s n i t o t p i s o i t n u n A v t p o i t s o u j t
n r s o i t S t o u v t r t s o i t n v u j C n p v r o f S u b t b t t s t t o t u r r
C n v f o r t v t o u f o r v n C n v f o r v v t o u b t r n o u r s j v s n d r s T s r t q u s o n s
p o s b E j s j n s o i t r o n D t n t n b Ar j D o i n C j n u o r t t
v r d t s v o r s i r s p j f o j o v n s r t u r n i r o j i t r t j r t t o r s p o i A u u s o n o t .
t s i t t r r t r s r p r s i t n r t r n u j t o n s o i j j o r j n n D o i n p o r s t
n r s t o n s b t v n t r u u s n r - . 3 T . T . 0 0 r - . 0 0 . 3 x x 0 3 n . 0 x - . x 3 - .

nt s r s r pro t v v p or ovt s of out r utur r b on n so j n po t j sson n
p it rru t for t on of nt on j it t n Ar it n n C j.

4:30-4:45 p.m. *u s o o r n t ports In un n / tn A r*

Tucker Nichols

Faculty Sponsor: Alberto del Pozo Martinez, Department of Modern Languages & Literatures

S n ts itro ut ont ot A r n on n it nt n of t itur b En js rt on so r s
b n n un s opp b j for nt r on. ts n i j n n b s n n n r j j sp t s of t o m t n A r n
so t n r pr s it s on of t i v t r u j un v rs j p s s ons. As r su j of t s un n b j po v r t s v it t t
so r s u or t n us n n s p r n j s s t o un r s n b t t r t v n v so r
s p st o m A r n so t t s pro t sto n j z t ff r it v s n v so r s p o r
t rou r of or j t r r n v su j u s. n on so on v j n or n p un r s n n of
t n n of so r n t n v u j s our s t t to n psu j t s s n of t spot s u s
n j a t n s s s of s or ov r o n t pr s s t ns ons b t v n u st t r s t rou
t s n j s s v j s r v s r t j po t s of o p r s on t v j j p un ov r t purpos of t s s our s n
ov t r n v u j r t it s of t spot j u r t so r s r t j ro j n t n A r .

Explorations in Greek and Roman Studies

1:00-2:15 p.m.

Palmer 207

Moderator: Austin Wall

n C r s nt p i o s r nt w r n s t on

SCIENCE ORAL SESSIONS

Biology

1:30-2:15 p.m.

FJ-D

Moderator: Ashmeet Singh

1:30-1:45 p.m. / n ov r n n out A r n t pot nt p to r p noso ruz

Katharine Goebel

Faculty Sponsor: Sarah Boyle, Department of Biology

Tr p noso ruz st prd ozo n us nt pd it jC s s s so novn sA r n
tr p noso sst v tor s bto ni t rn of jsp s n u n u nst ni ton nb
o ujt b bt tfr it ton n bo v rst joss n tnt pot n n s u n jn ov r n .
T rou j rtur rv vt orp strbu on of . ruz n rsup jro its n non- u npr t s
nSou A r prn p j Br j v s t r n . C n s n jn ov riro to v r it i
pp nt n o pr tot orp strbu on of . ruz . t v sfoun t t . ruz v spr r j
p t n r s n v no jn ov r n o urr su s n it n n of t os bt t s r s
surroun n st so . ruz o urr n v un ro jn ov r n pr n t r t s n
bt v ns rub jn to os of v t t on n rop jn .

1:45-2:00 p.m. r n or C u s n n . A ov n qu or on torn Hor on s n n s

Emily Lichtenberger and Beth Roberts, The Memphis Zoo and Aquarium Research Fellow

Faculty Sponsor: Sarah Boyle, Department of Biology

n j r it j v t o sto ont or r pro ut v n p s o p j j us n on it r t ons of r pro ut v
or on s n j o of o s b n p pr nr j s t sp s rt p s Zoo rpt ru un rv it
r novt ont rou r t iro t n t u for us u n br r S rv s v j to prov its nt
ous n of o jn of bu j sn s tuop s t ns . r u ob t v s v r to t r n i sn s ns s nb
us for non- nv s v or on ont or n n it i n s n i j n s n of os ron nt s os ron
on it r t ons sso t vt t ous n prov its . Cot os ron nt s os ron v r sur us n n
n z - jn uno ss . foun t t s n of os ron v s post v n j t rou out s . S
s n of os ron on it r t ons ni it j r s fro b ior t r novt onto it r v j f j
of os ron on it r t ons ni it j n r s fro b ior t r novt onto it r . v ous n v it j t on n
j t n v r us u to v r rt n sr t prt ur s s i tor v j tot n r s ni j
of os ron on it r t ons u to n t i t f i t ont f s r t rt n p s o p j r spons . S s n
t s os ron on it r t on f j s os ron on it r t on nt r s ni n v j b pr s it s v j s
f u r r t ons of t s r s r .

2:00-2:15 p.m. t s o n on n A r n p n t s lo s o ont r n t v j v or

Evan Tucker

Faculty Sponsor: Sarah Boyle, Department of Biology

Air n j p its o o ont Air n rt j r s j n s nt v or j nt o j s Air n j p it
n j vt s r r n z tt p s Zoo . A s r n z s n s j v n of r n n tr r j
s tus s pp r fro p r s n r s r s u its poss b j b us of r n z s p d it j r s n

Biochemistry and Molecular Biology I

2:30-3:15 p.m.

FJ-D

Apt w tr ts vCnr ns no pjt un rsoo. vCn nsjn nswnr ov fro ts
ntro r ont t su snt tt Apt w sr rut to vCnb sp f DAsqu n s.
vt ntwo fir r t ppro sto ifi squ n swt n vCn t t r pot if for t ro ro t n
for tonv t Apt w . non ppro w v r t v r sons of vCn t t r on of
bun it s Afor ton. n nd r w v n n r v r sons of vCn w t t nu bro r n o
ut ons. B ifi n ut onst t bro t vCn- t t ro ro t nfor ton w w w w nt
ow DAsqu n swt n vCn s b s t ro ro t n n on r bu to ntro r iunt on.

Biochemistry and Molecular Biology II

3:30-4:15 p.m.

FJ-D

Moderator: Jenny Loome

3:30-3:45 p.m. B o r t r z ton o t prot n prot n nt r ton t w n X n 5 B 1

Sam Jordan, Rhodes College; Brett Mulvey, Department of Developmental Neurobiology, St. Jude Children's Research Hospital; Robert Michael, Department of Computational Biology, St. Jude Children's Research Hospital; Jamy Peng, Department of Developmental Neurobiology, St. Jude Children's Research Hospital
Faculty Sponsor: Dhammika Muesse, Department of Chemistry

ur pd it s s r unqu s f-r n w n st t r b to fir r t t to oit tur s oit
bo ur b s n r s nun r s n n p nt ns st t r ut p ur pd it s s f-r n w n
n fir r t ton. Ep nt ns s t r t b n s n n pr ss on w t ou t r n no
s qu n s. X s n p nt i tor nvo y nt t vt on of n st t ns w fir r t ton.
A ton w ut ons tt X n p v b n j n tot v op it j sor rt bu s n ro
n v rous u n n rs. r j n r t fro our b it i 3B s nov j pra n b n n p t n r of
X. 3B s pra n nvo y nt w r r spons to D A ou b - r n br s r s u s
pr s it r s o w t t X p j z sto 3B fo ns v r j fir r t u n w n s su s n
pd it j ro j for X nt D A r spons . Fut r or t s on s r t t t s o p j z ton o s
nd t p j n su s n t sp t n rs p s n d pr s it n ous o s. n t ont s s u ifi s
t b n n o n of 3B prov n ns t it ot o j u r n t ur oit sp t n rs p.

3:45-4:00 p.m. o u oos ort D v op nt o ot nt tv HDAC In t tors ort D s no

r t C n r p s

Xavier May, Rhodes College; Shana Stoddard, Department of Chemistry, Rhodes College; Davita Watkins, Department of Chemistry and Biochemistry, University of Mississippi

Faculty Sponsor: Shana Stoddard, Department of Chemistry

s r s s o w n t t no own of DAC s s or sus p b to w t b n r t r p s.
b j vt t f w nsu s s u n bt DAC w w w vt s ff t s w no own. n DAC
n bt or vor nos t n j ss- sp f DAC n bt or p nob nos t on d n bt sp f soz s. F n n
sp f n bt or o j u s i or DAC w w r s u n or t r t t r t it. s n t r s j s r u t ur of
DAC DB D XZ w o p nob nos t vor nos t n v rous p nob nos t r vt v s it ot t v
st . An j s s oit n r t on s s o w t t o poun sou o pt p nob nos t n w of our o poun
ou o pt vor nos t. ur t su s st t b r s u b s t u i t r n s r b t t r i o r t n bt on of DAC
r t r t n b r or r t r t ro ro t r n s u to u p j p- p s n n r t ons b t w nt or of
t j n s - n - . A ton w j n swt n n o j r n t t ro n bon swt j- 03 on
t j it s oit n r n tot t v st v r b n n s or st n j n t t ro n bon w t
nt wor of s r u t ur w t r o j u s ont r t s oit n r n s wor w w p v op or t r t
n s j t v DAC s i for n r t r p .

Computer Science II

3:30-4:15 p.m.

FJ-A

Moderator: Luke Fairbanks

3:30-3:45 p.m. *E t* *Constr nts s tr ssors n n rtu Env ron nts*

Jack Morrison, Josh Ladd, Joel Michelson, Hong Xu, and Donny Ramier

Faculty Sponsor: Betsy Sanders, Department of Mathematics & Computer Science

Co ot v tu jr t v s t s r b o n or ffor b j n v spr r v j n n v sp s for
n v u sto j m n vor n. nps op t Y r s-Do son v s ovst tt r s onn t on b t v n
p rson s r ss v j n t r p for n o p j n t s r r r s r fo j ows n n r s n ovt st wo
it rs t. B s u n t f i t s o t s r ssors ont s o p j t on n v n v ron its s o p r to it j
r j vor j n v ron its v obs rv ov us n v t no p p ts p rson s pro ut vt t p r it
t s sp t p ts vt bu j n o o st t r to sp f on t ons for n p t p it sto prob j so v
n t p . os r r tv n n rn u v v pot to v tor pr s it t p of vor b n
on vt v pro ut sto . B obs rv n ov our pro ut vt s p t n v t u j sp s v op to
un r s n f v s v b j sp for b d j rn n n vor n .

3:45-4:00 p.m. *st n r s n n rtu t*

Michelle Smith, Kira Curry, and Madeline Mechem

Sponsor: Betsy Sanders, Department of Mathematics & Computer Science

ito b p n sp nt t p op j f j n t n fro bo p tt t s no j n r tt tot r bo .
ito b S n ro - n t s sub- on t on ito b n t p j j s iro t r u t p u t ons
v r t r su j of nvo j it n v rs or p u t ons r su j n fro j on t on t ou t us of
t s on t on s n d b n pr s j n i p pro t j o of pu s pr n so for of ito
b s nst on. S n pu s nt S v row n ov r t wo j on n t no p j nno vt ons r r p j
vo j n t tt j j j st n v it oit t no p to r t n vt r p s. nt s s u v us
v t u jr t to sur p t p t s s ns of pr s n n t s v tt p s of bo s n t vt s r t t
o s pr s n nt v t u j n v ron it t purpos of t s s u sto s rn v qu j s of t n v ron its
r o s f i t v n r t n n vt r p for p ito j b p n. B us bo it s s u n r j n
b d t tr t it of p ito j b s n ro n t f j of v t u jr t t s r s r p n s upon
on p of b d f j s unt n t n v t t t us i r s b n p or r j t v j j t j .

4:00-4:15 p.m. *C r n*

Haider Tiwana, Wyatt Gale, Joe Boltuc, and Olivia Burton

Faculty Sponsor: Betsy Sanders, Department of Mathematics & Computer Science

S n r so j n t vor n v bst s j F boo n t vt r j o v n v u sto onn t n s r on
p j t for . v ov v r ss b j t n t on t t it b d s. 03 o -3 x 0 r - 0 .33 t 0.3 x x 3. 0 o - - . 0 -3. 0 - . x 3

Math II

2:30-3:15 p.m.

FJ-A

Moderator: Luke Fairbanks

2:30-2:45 p.m. *G n r z n H l r t r s or tr s Groups Iso orp to Zq*

William Bitting, Rhodes College; Chris Seaton, Department of Mathematics & Computer Science, Rhodes College; Daniel Herden, Department of Mathematics, Baylor University; Hans-Christian Herbig, Departamento de Matematica Aplicada, Av. Athos da Silveira Ramos 149, Centro de Tecnologia

Faculty Sponsor: Chris Seaton, Department of Mathematics & Computer Science

t zq b pr t v q rod of unt n jt ... n nt tur u b rs b s nt s r t j n r s n
n o-pr to q. Cons r on j tr vt t t tr s zq n t tr roupt t t n r t s.
vou j j to now ov n nv r it po j no st r r vt r sp t tot s roup of n v n r .
A po j no j f s s to b nv r it t f i for n n our tr roupt o p i n t s nv r it
po j no s v t urnt o for u j iro nv r it or j j o j ns For u j t s p i u j for u j j u j t s
V j t S r s sp j p o r j or S r s w r t o f f it of t ft nu b r of nv r it po j no s of
r . vor fo us son o pu n n r j for fort s V j t S r s sp i j nt s v r q s
pr nu b r. Do n so vou j prov ns t it ot s nv r it po j no s n u to ov v v
on s rut our roup s j ov for pro r ss on t o s of so v n t n Four r-D n Su s.

2:45-3:00 p.m. *ut o untu os o or A v n Gr vt ton v D t tors*

McKenna Davis, Rhodes College; Haixing Miao, Andreas Friese, Daniel Toyra, Alex Wormwald, and Harry Song, Institute of Gravitational Wave Astronomy, University of Birmingham (UK)

Faculty Sponsor: Chris Seaton, Department of Mathematics & Computer Science

j u j t t pow r sp tr j nst of t j t f j n it on p do o for s v r j st ut ons nvo j n

Physics

3:30-4:15 p.m.

FJ-C

Moderator: Emily Hanson

3:30-3:45 p.m. *D s n o n t o r s o t ! X C n z*

Carolyn Dishuck and Larryn Peterson, Department of Chemistry

Faculty Sponsor: Mauricio Cafiero, Department of Chemistry

n r n t r s b t r j n i t o n s v b o o r r s s t t o t r t i t s p o s n j j n f o r b d r s r r s n j j p r o f s s o n s . t s b o p r t v t t n o v j f f t v t r p s n s t s r s s t i t b t r j n i t o n s b s o v r . r - n t v b t r p r s n t n t o n j j n u t o t p r s n o f s j t v j p r b j o u r b r n . A o n t o p o n i t s o i t o u r b r n s p A w s r s p o n s b j f o r t r o v n p t o n t o f r - n t v b t r t n z p C s r s p o n s b j f o r t j z n t f i r s o t t s p n t b o s n t t p t w o f p A t n b t o n o f p C w o u j t r f o r p r v i t t p r o u t o n o f p A n n r s u j n o r r u p o u r b r n . S t n f r o p C r s j s r u t u r w t n t u r j s u b s t r t b o u n t t v s t w v s n n o p t z t p o s t o n o f s v r j n o v j j n s n t t v s t t s r u t u r f o r t s j n - p r d n o p j s w r o p t z u s n o j n t z - 3 b s s s t b d n v u o n n s o j t o n p s . i t r t o n n r s i o r t j n n p r d n o p j w r j u j t u s n o j w t t z - 3 b s s s t . D s o j t o n n s p j i z n b n n s u s v s o b n p i o r t o o n i r t t o u r o j s r s r b s t z n b n n n t p r d n p p r o p r t j . n t j w o r s o w s s v r j p r o s n n t s f o r t n b t o n o f p C .

3:45-4:00 p.m. *E v u t n t r s o n B s t t r n s t v t t o r o s t r u t u r C r t r s t s o o r o u s B o n s n r t C o r r t o n s*

Joshua Moore, Luke Spinolo, and Matthew Huber, Rhodes College; Brent Hoffmeister, Department of Physics, Rhodes College; Jinsong Huang, The University of Tennessee Health Science Center

Faculty Sponsor: Brent Hoffmeister, Department of Physics

B r o u n B s t t r f f r n t n q u s r b n v o p t o t t n s n b o n u s b o s o p o r o s s . B s t t r f f r n t n q u s o p r t p o w r n o n p o t o n o f n u j r s o n b s t t r s n j t o t p o w r n f f r n t p o t o n o f t s s n j o j n v s t o w b s t t r f f r n s u r i t s p n o n t n s t n r o s r u t u r j r t r s s o i n j o u s b o n . r o u r t r s o n b s t t r s n s w r q u r f r o 3 o s p n s o f b o n u s n n z b r o b n t r n s u r t n o r j z n b s t t r f f r n n B D w s t r n b o p u n t p o w r f f r n n B b t w n t w o t p o t o n s o f t b s t t r s n j n v n b t i t r t o i t r t s p r t o n b t w n t s . r o s r u t u r j r t r s s o i t s p n s n b o n n r j n s t B D w r t r n u s n - r r o t t n q u s . s u j s n B D o n s r t o r t j p o w t o s r o n j n r o r r j t o n s S p r i t s o f f i t s w t r o s r u t u r n B D o . 3 z o . T s u r o r r j t o n s n d p n s r o n j o n t r n s u r f r q u n . t j o r r j t o n o f f i t s w r s o s u r t o t r n o r r j t o n s b t w n r o s r u t u r j r t r s s n u j r s o n p r t r s n p n i t o f B D . C o n j u s o n s t b s t t r f f r n p r t r n B D b s n s t v t o n s n n s t n r o s r u t u r u s b o s o p o r o s s .

4:00-4:15 p.m. *A n s s o s p o t s n s p n t u n u r s u s n u t r s o u n*

Phoebe Sharp and Sheldon Ebron

Faculty Sponsor: Brent Hoffmeister, Department of Physics

t r s o n b s t t r t n q u s r b n v o p t o t t n s n n j o u s b o n u s b o s o p o r o s s . T o v j u t n w j v o p b s t t r p r t r j j t n o r j z n o f t b s t t r f f r n n B D u j r s o n s u r i t s w r o n p j i t u n i u r s n o p r t o b o n n r j n s t

B D sur its p for us n -r o pu to or p G T r su t n orr jt ons w r n r ll
poor -G. G. .V ov v rt G s n t t pr sn of spo ts n so of t f urst t
v ni u n t ujr soun sur its n j s so t ujr soun s n s w sr p t on subst
of t t t vo poss b j spo ts orr jt ons prov s r su t -G. G. . on u
t t p j t f urs v j pp spo ts poss b j s r su t of fr z n n t w n w fi t ujr son
sur its.

FINE ARTS ORAL SESSIONS

The Cauthen Competition: Final Round

Tuthill Performance Hall

Moderator: Leah McGray, Department of Music

1:00-2:00 pm

j s C u n w s on of t foun n ni u n s nt v j pp it of o s Co ll D p t it of
us w r w out of t p s Co ll of us . n r onor n or j s C u u s j s
r b r t rou t n n of t s so p o p t t on t w n n r w j p for w t t o s Co ll
r r s r nt fo j w n r.

Studies of the Past and the Present

2:00-2:45 p.m.

Clough 417

Moderator: Miriam Clinton, Department of Art & Art History

2:00-2:15 p.m. *op us ort qu sts n ost*

Leah Borsari, Arthur Frawley, and Emily Murphy

Faculty Sponsor: David Jilg, Department of Theatre

t o s t nt o b fr n " nt F j s s r of G t Co t r w j p ro u tt w
Burnt: s op us or . St nt su r of n w pot o s j n t p j s b s on nov j of
t s n w r t t n b u j z r pr z -w n n u on orit on j r. v n s s f i n s t r j f n
s t t n ou on qu s t o s t s s b t on t op us w it s to qu j p s s t rou w pot bu n sup
sp n n t it r su r bro j nt j v s of j t p op j t s t rou n j s s of Burnt: s s r p
n t orit on j r s nov j s w j s b roun n for t on bou b d u ors w r v j pp n pro ut on
on j t t b n s t o n o p s s j r s of t pro ut on.

2:15-2:30 p.m. *o n t no ns n . D t onstru t on o An nt tru tur s*

Kathryn Clark and Bao Bao Wang; Miriam Clinton and Darren Floyd, Department of Art & Art History

Faculty Sponsor: Miriam Clinton, Department of Art & Art History

T s p p r p r s i t s r s r o p j t s p t of p s C n r F j w s p nt At s. At of s u its
w or to r t non j n us n 3D o j of n it r t tur fro t non p ro n r .
G BCE T s p p r p r s i t s t t f s or j n r o p j r s r nt 3D o s r t s r su t.
T Vous of t t s r u t u r foun ont s j n of Cr t w t b a o s n r t u j p u r p o s s
r on s r u t t rou t j o j n n T 3D o j ob ts n spr b t u j t f i t s i r o t s t
popu j t t j r on s r u t on of t n it ous T s p p r p r s i t s b a t us of ob ts nt ous n
t r it pt p u r p o s fort T f i n j p r o t f o r i j of G s t o r t non j n us to
u t us rs on non u j u r n r t u j

2:30-2:45 p.m. *F n n t su t n tu . Et Art r t n t F n n st A st t*

Alexandra Greenway

Faculty Sponsor: Rashna Richards, Department of English

F ns n \$ t s v d n b n t o s w t on n d r. ur u y s. j z . \$ t f r o f
i n \$ r t s u o i w f o u t n \$ s s i t j z n n o p p r s s v r p r s i t t o n s o f w o n.
F j b o s s p i j j n t s t o r b u s o r b o s r o b t v j p o t r f r o j p r s p t v
d r n n s s i t j z n t . n t o n t o f u t r n r t s o f t j z o n t p o r r s o u r s s
b u n t o p p r t o r s o i f n n f i n \$ \$ t s - t d j z - n p u s t o w r p u r j \$
n r p r t t o n s o f b o s u b t s. t o p p r w t t s \$ t j o o s j n p r t . B n n n w t n
s s s s i t o f t o r s f r o u y C o u s r r

p b j s w r r t r z to t r n w t r

#4 I n t t o n o o v I n t r t o r s o t H s t o n D t s X

Tanner Martinez, Rhodes College; Yurii Sedkov, Diana Balasubramanian, Satish Kallappagoudar, Lisa Velez-Velez, and Hans-Martin Herz, Department of Cell and Molecular Biology, St. Jude Children's Research Hospital

Faculty Sponsor: Kim Brien, Department of Chemistry

n u 3 n 3 n r s o n 3 j s n 3 t t r n s i r s s t t s n j r p r d n o p j s n r u j t s r u j t o r D A j n s j j n n r s . T X s o r o p o n i t o f t 3 o p j s n t s s s o n 3 j s n 3 t j s r o v n 3 - n t r - t j t o n w r s s o t w t n s j n n . r w s o w t t T X n r t s w t E S A n D T T V D A C n V D A C w o n s t u t D A C C o p j t d D t j s C o p j n t z n i n r p r d n Z F T s s o n s r t t r o u t o - u n o p r p t t o n o f E S A n D T T V D A C n V D A C w t T X n t r v r s o - u n o p r p t t o n o f T X w t E S A n n D T T n V u n E b r o n n V E 3 j s . Z F n T X v j s o b n o n s r t s i t r t o r s b o - u n o p r p t t o n n V E 3 j s . S S t f r o T X u n o p r p t t o n i r o V E 3 n u j r t r t r v j s u o f t i t o n p r d n s s s n i i t i t r t o r s . A u p r d n s s r t n t s o j u j r w t f i r t o n u p o n j r o j r i t u j r i t r i u t o n o f V E 3 n u j r t r t s u s n t t t p r d n s i t r t n v v o .

#5 C t o t n t p o t n t r o o r u D n C n t n n n r r

Malerie McDowell, Rhodes College; Wanda Layman, Dan Williams, Yuxuan Wu, Jie Fang, and Bryan Kuo, Department of Developmental Neurobiology, St. Jude Children's Research Hospital
Faculty Sponsor: Jian Zuo, St. Jude Children's Research Hospital

n t n t S t s t p r v j n o f r n j o s s n j r n n o j s i t s s r s n t o n s t t . " t o " n s o r r j t w t p r o b j s n r n t n t t i t o n . n o i t p r r u s s o f r n j o s s s d o o r u s w t r j s w t n t o j w r r s p o n s b j f o r t r n s j t n s o u n v b r t o n s i t o j t r j p u s s w n b u n r s o o b t b r n . n j s o n t s r j s r j o s t r u n b j t o r n r t . V o w v r s o s u s s u s t t j s i t n t s b j t n o n t j s s u s n t t j n j s u n r o p n i t n s w j t r n r t v p t . j r j j j j s n b r t t r o u r j n u t o n o f t r n s r p o n i f o r A o s u n u t o n s j t b p n t r s w p r v i t t s j s f r o f u j j v j p p n i t o f u n t o n n r j s . B p r v i t n p n t r s b n o n o u r p r s s v o f t o r s t s r n r t v p t n b i t n T r p r s s v o f t o r s n p u j t n t s s u r t u D n C o p j s w r n v o j n t r n n j f i t n i t n n j f i t r s p t v j . B n b t n t s o p j s b f o r t f i n t o n o f t s v j p i t j p t w s j u j r p j s t n b i t n n t s j s .

#6 A s r t n n t o o C u D p n n t o s p o p s s n t o n H o t w

Jacob Menke, Rhodes College; Angela Arensdorf, Miriam Dillard, and Stacey Ogden, Department of Cell and Molecular Biology, St. Jude Children's Research Hospital
Faculty Sponsor: Jonathan Fitz Gerald, Department of Biology

T S o n V o S s n j r n s u t o n p t w s v o u n r j o n s r v n v t j u r n b r o n v j p p i t . o s - v j p p i t j b n o r j S s n j n n b u s t v o f n r s s u s u j o b j s o n b s j j j r n o . C u r r i t j j t j s n o w n b o u t r u j t o r n s s o v r n n t s p t w t r f o r o u r j b s s t o j u t t s n s s n o r r t o i f i n o v j s t s i o r t r p u i t r v i t o n . r v o u s j o u r j b i f i t t j s s o f j u p n i t p o s p o j p s s A n r t w t S o d n S o p r d n o u p j r p i o r C n s s i t j s n j r n s u r o i t p t w t o p r o d e r - 3 - . . .

n r r u t s r n C r t v A t v t p o s

#9 *D t r n n t ro o ABI n t t rou tr t nt o ort z ous r on r sts w t*
poptot nts

Peter Daniels, Rhodes College; Hans Haecker, Infect

n r r u t s r n C r t v A t v t p o s

rbo ↓ s t v st o wt now n D A- rbo ↓ s n bt or C rb op w s sojt fro t
rd nDt B n DB D S3 T post ons of nov ↓ op nr rvt v s w r op z nt tv
st us n X-3 wt pjt sojt on n wt f ↓ b ↓ no s - ns. it r t on nr s
bt w nt ↓ n s nt prd n w r ↓ ujt us n X n wt t -3 b s sst. A
pr s nt -nt ro op n pp rst o b n if t v o ptt v n bt or of t D A- rbo ↓ s n z .

#16 *Do ut tons to ptop sts? C r tr z ton o t !D o no !A ort v op nto
ptop n n ps*

Candace Hayes, Colin Welsh, Xavier May, and Shana Stoddard, Department of Chemistry

Faculty Sponsor: Shana Stoddard, Department of Chemistry

T p osp o p s A r p or A s n n n nt u o un sor r AD opt br nous
n p rop t r o ns v b n n i t o v ptop st s ES nt sr p or ov v r t
sp f s qu n of ptop son ↓ b n n i t n r n o n r for w nv t t w t r
o on ut ons 300 D nt G D o n ↓ to r t r prob b t of n ES T G D o n
w s r t r z . Eptop n E CES w r us to

#24 ~~DE~~ *n s s o t s t v t o n o w n t o t v n s n t su otr ns r s n t o o*
t tr ns r s nz s

#30 t on D s no E p top B n n on d o s. oo s or Auto un r p

AliReza Zaravar, Xavier May, and Shana Stoddard, Department of Chemistry

Faculty Sponsor: Shana Stoddard, Department of Chemistry

Curr it t r p u op ons for u o un n s s A D nvo y t us of nonsp f

unosuppr ss v t onst t w nt it r pt n s un s t t s t r p s v t pt it
or pron to otr t n b s n t onst r for or t r t ppro s w suppr ss on t pot on of

ow s nt n r popu on n n r wor rs w pr v it nd r t rop ou br
t ou br fro o rr n .

Computer Science

#33 En pus

prof ss on ↓ s r s r su st tt s b r r r t so b u tot ouns pr s ↓ of un r t n n of t
↓ r r u q u r ↓ p no non F ↓ n **00** r s pro t it f s n s t u on ↓ b r r rs ff t n f n v u g
sst o it ↓ q r st ut st s ssu s w t nt or t of D f u q u r n s r b s ouns ↓ n

#54 E t s o r t on on r n t on n row t o s ons n st p nts Br ss r p -
Catherine Owen, John Kemmerly, and Ian Chambers
Faculty Sponsor: David Pike, Department of Biology

#55 t s o t p r tur on r t t o s
Moriah Muhammad, Darah Fuller, Erin Dindoruk, and Lauren Lazure
Faculty Sponsor: David Pike, Department of Biology

#56 Cr s st str t pr r n nt pr s n o oo r w r
Kelsey Healy and Ryan Palermo
Faculty Sponsor: David Pike, Department of Biology

#57 Do st os p nt n ts ns r spons to r p t non r u st u ?
Michael Phebus, Taylor Ryan, Lelo Shamambo, and Sophia Quesada
Faculty Sponsor: David Pike, Department of Biology

#58 Do o st r ts vo st str t s w t s onsp s ?

#66 Do or o n nt r s t sst to r oo ?

Sarah Eiland, Abby Ellingwood, Hannah Lam, and Yufei Zhang

Faculty Sponsor: Carolyn Jaslow, Department of Biology

#67 to r nt on ntr tons o G r GA ont rowt o Du w

Kendrick Ashby, Annie Ouyang, Nithila Ramesh, and Julianna Szuwalski

Faculty Sponsor: Carolyn Jaslow, Department of Biology

#68 to t o oront sto t nst o Br ss r p v s

Umer Aziz, Caroline Magee, and Hibah Virk

Faculty Sponsor: Carolyn Jaslow, Department of Biology

#69 E to o stur on r t st str t pr r n

Mark Massey, Reece Stevens, and Shuliang Yu, Urban Studies Program

Faculty Sponsor: Carolyn Jaslow, Department of Biology

POSTER SESSION II

Multi-Sports Forum of the Bryan Campus Life Center

4:00 – 6:00 pm

Poster Numbers are listed with each title.

St. Jude Summer Plus Fellowships

#1 C r trz 0 0 0 5 5_00 1 9 u 0_ 1 0 0_ 1 0 9 1 10 4 9 t _ 90 5_0 1 4 _ 1 5 9 0 4 0 B 4_

#5 *C t o t nt pot nt ro or u D n C nt n nn r r*

**Malerie McDowell, Rhodes College; Wanda Layman, Dan Williams, Yuxuan Wu, Jie Fang, and Bryan Kuo,
Department of Developmental Neurobiology, St. Jude Children's Research Hospital**

Faculty Sponsor: Jian Zuo, St. Jude Children's Research Hospital

nt nt S t st pr v n of rn oss n r n n o s n s s r s n t o n s

n t v t o p o t \$ s i o n f o r n u n t s s n t r n s p j t t o n o f s u b - j t j j r r t
C B z u t o n s w r t r n s f o r n n v t r o s o n s r t b t f o r t o n o f u p j f o n
o n t r u r s n n v v o w n o b n w t p 3 u t o n s . d w o t t p r o v t o b s n s t v t o
n b t o r s . Z Y D - E A f u s o n s u r r i j b n n v s t t n F F A n n o u s t r n s p j t t o n
s u s .

#8 s s p r t o n n u t v n t n t r t o n s t w n u n n u o r p r o t n j n p r o r o t
r i o s o o p o n n t s

**Christopher Parish, Rhodes College; Dhammika Muesse, Department of Chemistry, Rhodes College; Diana
Mitrea and Richard Kriwacki, Department of Structural Biology, St. Jude Children's Research Hospital
Faculty Sponsor: Dhammika Muesse, Department of Chemistry**

T n u j o u s s t o f r b o s o b o n s s n u r d j s . n j n o r n j j s t n u j o u s s n o
p o s p o j p b r n n s t s o p t i t j z t r o u p r o s s t r p s s p r t o n t o j u j r
n s s t t r v j q u - j q u p s s p r t o n S o f r o o j u j s n b o p r n d o p j t j
u n r s o o . r o r d s v n d v o j v o p t n p r j j s b n u - . z 3 o - . 0 0 3 s 0 0 0.3 s z 0 3 n 3 - . 0 0 . 3 0 - 3 . 0

#17 *nt s s n r trz ton o r zon r v t v s ro z s r z nop r n BH*

Natalie Galindo and Kim Brien, Department of Chemistry

Faculty Sponsor: Kim Brien, Department of Chemistry

*V r zon s p d it t n w j s s o i r n s t on t j j n s b u v n d b n s u t n s v j s s u . T
n roups o i r zon s no ur s E or Z so rs n r o i p t u j r it r s f o r t r p d o j n
t r j prop t s. B r n s j r t top d o t v t o j u j r d o r s t n u n s o i t s r b o n - n t r o n*

#21 E tro t t H ro n For ton sn Cd t B s Co p s

Phillips Hutchison, Alex Graves, Omid Taghavi, Meghan Kiker, and Cameron Tinker

Faculty Sponsor: Will Eckenhoff, Department of Chemistry

As t wor s popu t on n r s s v op n n w n r sour s su s t i p d os it t ro n
pro ut on s b o n prort . it s u s v s o w n t i f t v n s s o f o b t o p j s w t
po p r n j n s t n s t j s s i o r j t r v n ro n pro ut on. - p r n - - j b s - -
p r n j t j t n n s pro s n j n b us o f t s j tron s j r t to j n s p r v o u s j us for
o b t t j z ro n pro ut on t p n it b s s o f t j n o v v r o u j n r s t s t j t t v t .
A n d r v it o i t s p n it r o u p s t r b j t o b n for d r b s s u b s t a n t s j o v n t
o p j t o b s n for t n j n p . C o b t o p j s w r s n t s z u s n t s j n n
r t r z b d o p j n j t r o j j . E j t r o j n j s s s o w s r o w v s t - 0 . 3 - . 0 n
- . z v s F F . n t p r s n o f t t j t w v n t v o f ro n for t on

#27 Hous o Foo Environ ntA on r n nt o n n t Asso ton wt Es ss v G st ton t
G n

Hannah Porter, Rhodes College; Rebecca Krukowski, Department of Preventive Medicine, University of Tennessee Health

Faculty Sponsor: Alan Jaslow, Department of Biology

n r n n t ro t t o foo nv ron it son prov us fu t n n t r t
to pr u ss v . r n n wo n Air n A r n p t pt n b vor J
st on t n n rv it on. t p n s o p t sur s of t t foo v J b t p t t foo
v J b t n foo s or pr t s t b s J n n t 30 s. s J u t st ff r

#30 *Ens r pr s nt tons ount or sz onst n*

Sneha Suresh, Samuel Thomasson, and Jason Haberman, Department of Psychology

Faculty Sponsor: Jason Haberman, Department of Psychology

T v su s s o pr ss sr un it v su j nfor ton ito n ns b j r pr s it t on b v r n i t u r s
of roups of t s. Ens b j p r p t on s b ns o v n t o o p r t v t r r b j f j b t t o b n s
i t u r s r o s s o s of v su j o ns t r t s s u r n i o r t o n n t b s n o f t t i t o n n v n
i t r t s o n p u j n i o r t o n i t o n n s b j r p r s i t t o n . . n t S u r s V b r n v S S .
n t u r r i t s t o f p r i t s v t s v t r j n r p r s p t v u s s u s s z o n s n t n i j u n
t p r v v r s z o f r o u p o f t r n j s. A t o u s z o n s n u r s s r v v j r t r z t r
s b n j t n v s t o n i t o v t r t n s b j j u s t s i t o o u t t p r v s z o f n
n v u j t o r t s p s j s z . . n C o n b s r v r s v v s t s o f t r n j s v t n v t o u t
t o r t o f j n r p r s p t v u s n u v t r s u b s q u i t j p r s i t t a t r n j v s j r r o r
s j j r t n t v r s z o f t p r n s t. s u j s r v j t t o b s r v r s n f t t s z o n s n
i t o o u t v n s t n t v r s z o f t t r t r n j s t s r s u j s p o i t t o f i j b t o f n s b j
p r p t o n v s s t o n o r p o r t p s j n o n p u j r p r s i t t o n s i t o t n s b j o .

#31 *nt sso pt swt Boo A tv t*

Zain Virk, Zara Parkinson, and Anoushka Mullasseril; Kim Brien, Roberto de la Salud Bea, and Shana

Stoddard, Department of Chemistry

Faculty Sponsor: Roberto de la Salud Bea, Department of Chemistry

S o j p s s i t s s S S s n j n q u i o r n j o n p o j r o j u j s s u s p p t s. B u s
p p t s r b o p j j t v n i r t o n o f j i s p r o s s s p p t s i t s s n b u s t o v j .
-3. D - . p 3 - 3 -3 - 3 p - 3 - - 3 . 3 . 3 -3. F u t - 3 s . 3 C C.

#3 *r pr n r t on n no rowt w n or st*

Mac Wilson, Griffin Williams, Colleen Hulsey, Erin Deery, Luke Malanchuk, and Erin Gleeson
Faculty Sponsor: Tara Massad, Department of Biology

n wt t pro r ss on of t n sp s. B us t v t on r For s on of t n n of

n r r u t s r n C r t v A t v t p o s

S... Et n Attu... EA... n-S... An t D sor r AD s...
r sp t v... s... s n... p... r... p... n n t v... n bo... sp or
nt tr ns n r o... unt .Fn n s... s... nt... or t o... pr or s r... s... sto
on r bu to... t r un... n n o... t v... n r ns n r popu... t ons.

#4... *r n n n p tr v sut s n or I prov nt*
Tierney Linville, Rahul Peravali, and Geoff Maddox, Department of Psychology
Faculty Sponsor: Geoff Maddox, Department of Psychology

s r n t st t or so... n n n for t r... t sr p t... n t... rosst
v rsus t r... t s... n t... n s n... s s on... ss n... t n qu... now n s sp... r tr v...
n ur Bor... p... r s r... s o p r t... ff t s o... qu... sp... r tr v... n
r tr v... r... so ur wt... n qu... nu... b r o... t sor... out o... t... b... n... v it n... p n... -sp
r tr v... n r tr v... r... so ur wt... n n r s n nu... b r o... t r v n n t... sor... out o... t... ross
v it s on... or... ur... t n... p... r s r... b... t r n n... own r n o... r... u... p... t... p... it... st... ous
t r qu... sp... or... p n... sp... r tr v... n qu... sto... n n... or... for... -n... sso... t ons.
sur... p... t... p... it... b... t... o... p... n... t... tr... n... s... n... n... ov... p... n... t... s...
n... n... r... ur... for... -n... sso... t ons. sut s n... t... t... b... own r n o... r... u... s... prov
p... n... t... on... o... t... s... r... t... r... n... n... i... b... . t... su... s... s... u... p... n... t... on... o... t... s...
p n... -sp... r tr v... p... ro... u... b... n... i... t... n... or... ov... r... qu... sp... r tr v... n... t... t... s... but... s
ff... t... v... sr... v... rs... fo... ll... ow... n... t... -... nu... .

Social Science Humanities

#45... *nt ton tr t s n... C ntur... st... nn ss*
Claire Norton and Corena Hasselle, Rhodes College; Kimberly Kasper, Department of Anthropology & Sociology, Rhodes College; Jamie Evans, Ames Plantation
Faculty Sponsor: Kimberly Kasper, Department of Anthropology & Sociology

T... rou... out... v... n... rs... o... t... vt... on... n... v... s... r... n... n... ss... or... nu... n... p... tur... of... t... it... ur... v... r... j... f
nt... n... b... ju... Sou... s... r... . t... ov... r... t... v... n... or... t... uous... p... n... t... ons... ont... -... r... or... t... por... r
A... s... j...

st u it urn 6- p r o s r u b p r o b b t p w n n o n - v o t r n b
p r o b b t p w n v o t r o u r s w t n t n b o r o o o t s t u i t s s o o t s n s u s p n s o n n
p u s o n t i r o s o o t p r o v b S t
