P SHKALA PRASAD ***!"##$%"&" '()$*+,***

#$%&'(")*+,'--+*"+," . $%$/'0'%1",+*"234'*$("
5*1-"6178'%1-"
9':1;"+," . $%$/'0'%1"<"=7-3%'--"
6&38 0+*'">+(('/'"
?!@"A+*1B"=*+$8C$D"
6$*$1+/$"6:*3%/-E"AF"!G?HHI!HJG"
)B;"K@!?L@?MI@MMM"
NI 0 $3(0":.:*$-$8 P -&38 0+*';'87"

QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

ED CA IONAL Q ALIFICA IONS

)I;9;"3%" . $%$/'0'%1E"R%3S'*-31D"+," . $--$TB7-'11-E"5 0B'*-1E"R;6;5;"
6 T+%8">+%T'%1*$13+%0"6+ 3$("UB'+*D"

. ;=;5;E"V$S3'*"W%-13171'E"X$0-B'8:7*E"W%83$"

=;5;"KY3-1+*DLE"61'(($" . $*3-">+(('/'E"R%3S'*-31D"+," . $8*$-E"W%83$"

QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

ACADEMIC APPOIN MEN S

#$%&'(">B$3*")*+ '--+*E" 9':$*10'%1"+," . $%$/'0'%1"<"=7-3%'--E"6&38 0+*'"
>+(('/'E"R;6;5;" X7%'"GMMM"1+":*'-'%1L"

Z3-313%/">B$3*")*+,'--+* 3%">+*:+*$1'"6+T3$(" ['-:+%-343(31DE"9':$*10'%1"+,"
=7-3%'--"5 8 0 3%3-1*$13+%E"27%8"R%3S'*-31DE"6C'8'%"KX7%'"GMMM"1+"GM!!L"

>B$3*")*+,'--+*"3%")74(3T"5 8 0 3%3-1*$13+%E"9':$*10'%1"+,"=7-3%'--"
5 8 0 3%3-1*$13+%E"27%8"R%3S'*-31DE"6C'8'%"K . $D"!\\?IGMMML"

5--+T3$1'")*+,'--+*"KC31B"1'%7*'LE"R%3S'*-31D"+,">$(/$*DE">$%$8$"K!\\JI!\\?L"

Z3-313%/")*+,'--+*E"Y'(-3%&3"6TB++("+,"NT+%+0 3T-"K!\\]L"

Z3-313%/"6TB+($*E"6(+$%"6TB++("+," . $%$/'0'%1E" . WU"K!\\]L"

5--3-1$%1")*+,'--+*E">($*&-+%"R%3S'*-31DE")+1-8$0E"A'C"F+*&"K!\\!I!\\JL"

U'$TB3%/"5--3-1$%1E"R%3S'*-31D"+," . $--$TB7-'11-E"5 0B'*-1"K!\?HI!\\!L"

QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

CO RSES A GH A SKIDMORE COLLEGE

^-7%8$13+9-"3%_*/$%3`$13+%$("='B$S3+*"K . =GGaL"
^-7%8$13+9-"3%1B'"W%1'*%$13+%$("N%S3*+%0'%1-"+,"=7-3%'--"K . ="JMHL"
W%1*+87T13+%"1+"b +0'%c-"61783'-"Kd b"!M!L"
W-"1B'" . '(13%/")+1"=+3(3%/"_S'*e"93S'*-31D"$%8"93-T*30 3%$13+%"3%"1B'"
50'*3T$%"b +&:($T'"K . ="JJHYL"
23,'E"234'*1D"$%8"1B'")7*-731"+,">$:31$(3-0"K66)"!MML"
. 7(13T7(17*$("^($*'IR:-0"Nf:(+-3S'"W8'%131D">+%,(3T1-"3%"1B'"R65"KW9"GG!L"
6'%3+*"6'03%$*"3%"W%1'*%$13+%$("5,,$3*-"KW5"J]HL"
^$T'-"$%8")B$-'-"+,"d(+4$(">$:31$(3-0"KW5"J@!L"
['-'$*TB" . '1B+8-"3%"W%1'*%$13+%$("5,,$3*-"KW5"GM!L"

CO RSES A GH O SIDE SKIDMORE COLLEGE

Y70$%"['+7*T" . $%$/'0'%1"KR%8'*/*$87$1'"<" . =5L"
! . $%$/'*3$"6&3((-"KNf'T713S'L"
! _*/$%3`$13+%$("='B$S3+*"KR%8'*/*$87$1'E" . =5"<"9+T1+*$(L"
! _*/$%3`$13+%"<"580 3%3-1*$13S'"UB'+*D"KR%8'*/*$87$1'"<"9+T1+*$(L"
! W%1'*%$13+%$("N%S3*+%0'%1-"+,"=7-3%'--"KR%8'*/*$87$1'"<" . =5L"
! g7$(31$13S'"^3'(8" . '1B+8-"K9+T1+*$("6'03%$*L"
! A$**$13S'"d'%*'-"+,"['-'$*TB"K9+T1+*$("6'03%$*L"
! >+*:+*$1'"6+T3$("['-:+%-343(31D"K . $-1'*-"<"9+T1+*$(L"

QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

DOC ORAL S PER ISION

X7831B"=3*8-'(("	5%"W%-131713+%$("5%$(D-3-"+,")+(3TDI . $&3%/"3%"1B'">$%83%" =*'$-1">$%T'*"['-'$*TB"W%313$13S'"KR%3S'*-31D"+,">$(/$*DE" !\\?L"
U30+1BD"YD%'-"	)$11'*%-"+," . +T&"=7*'$7T*$TD"3%" . 3%3%/"93-$-1'*-" KR%3S'*-31D"+,">$(/$*DE"!\\\L"
>B$*(+11'"NTB1%'*"	5")+-1T+(+%3$("6'03+13T"6178D"+,"1B'" . $*&'13%/"+,"UB3*8" b +*(8"U+7*3-0"9'-13%$13+%-"KR%3S'*-31D"+,">$(/$*DE"GMMML"
X',,*'D"NS'*'11"	)74(3T")+(3TDI . $&3%/"3%")$*&-">$%$8$0"R-3%/")3'**'" =+7*83'7"1+"R%8'*-1$%8"W%-131713+%$("9D%$0 3T-"KR%3S'*-31D" +,">$(/$*DE"GMM!L

"

QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"
"

SCHOLARL BOOKS

! "#$%&'()+#,&%#%&-.)/.0.#"123)45"6&'()&')%2.)750%8750&%&-&0%)9"#:&%&5'0*;""K-'T+%8"
'8313+%L;"A'C"F+*&0"[+71('8/'E"GM!?;"U*$%-($1'8"3%1+"X$:$%'-'E"GM!];)

/5+%,.:(.)!5;<#'&5')%5"

@"

"

Nf$ 0 3%3%/"1B'">+%1+7*-"+," b +*&:($T'"93S'*-31D0">+%T':1-E">+%1'f1-"$%8">B$(('%/'-"
KC31B"5(3-+%" i +%*$8"<"X7831B")*3%/('L;"W%"5;" i +%*$8E");")*$-$8"<"X;")*3%/('"KN8-;LE"
*B#':C556)5$)45"6<,#1.)D*-.'0&%E0"!IGG;"2+%8+%0"6$/'")74(3T$13+%-;"GMMH;"
"

93S'*-31D"+%"_7*" . 3%8-0" . $%$/3%/"93,,'*'%T'"3%">+%1'0:+*$*D"_*/$%3`$13+%-;"W%""
6;"A+7*"<"2;"A'((0$%"UB3-1'8"KN8-;LE"

"

REFEREED JO RNAL P BLICA IONS

"

6 0 +&'"$%8" . 3**+*-0"W%-131713+%$("N%1*'"*'%'7*-B3:"$%8"d'%8'*"W8'%1313'-"3%"1B'"R;6;"
U+4$TT+"W%87-1*DE"!\GMI!\a@"KC31B"5%-B7 0 $%")*$-$8"<"i'((D"=$&'*L;"*F"(#'&G#%&5'E"*
GM!HE"GJ0"GG]IGa\;"

"

W%%+S$13+%"3%"1B'"d(+4$("5/'0"W0:(3T$ +%-",+*"=7-3%'--"$%8" . $%$/'0'%1"3%"1B'"
i%+C('8/'"NT+%+0D"KC31B"5%-B7 0 $%")*$-$8L;"*J'%.''#%&5'#,)05+"'#,)5$)P+0&'.00)*
H:;&'&0%"#%&5'E"a0"?GI?\;"GM!J;"

j_%'" . 3**+*"3%"5%+1B'*k0" . $%$/3%/"93S'*-31D"$%8"1B'"93-T+7*-'"+,"^$-B3+%"KC31B"
5%-B7 0 $%")*$-$8"<"[$`$" . 3*L;"*B+;#')/.,#%&5'0E"GM!GE"Ha0"]MJ"n"]Ga;"*

"

. +S3%/"_710"U+C$*8"R%8'*-1$%83%/"1B'">+0:('f31D"+,"_71-+7*T3%/"3%"1B'"5/'"+,"
d(+4$(3`$13+%"KC31B"5%-B7 0 $%")*$-$8L;"*P+0&'.00)/.'#&00#'1.)*+#%.",*E*"GMM]E"G0"H]"I"\!;"

"

d(+4$("U*$%-313+%-0"UB'"N0'*/3%/"A'C"b+*(8"_*8'*"$%8"31-"W0:(3T$13+%-",+*"=7-3%'--"
$%8" . $%$/'0'%1"KC31B"5%-B7 0 $%")*$-$8L;""*P+0&'.00)/.'#&00#'1.)*+#'%.",*E*"GMMHE"!p"
\!I!!J;"

"

W%"1B'"A$0'"+,"1B'")*$T13T$(0"R%'$*1B3%/"1B'"Y'/'0+%D"+,")*$/0$ETQq21$. 2+81(/')0 . 2(]0 . 0 . 412589

]"
"

UB'"N('T1*+%3T"U*$%-,+*0$13+%"+,"1B'"_*/$%3`$13+%$(" . ''13%/0"R-3%/"U'TB%+(+/DI3%I
>+%1'f1"1+"R%8'*-1$%8"d*+7:"67::+*1"6D-1'0-"Kd66-L;"KC31B"9$%">($::'*L;"*9.12'5,5(E)*
>%+:&.0"E"!\\\E"S+(;aE""
"

NS'*D8$D"61*7//('-"$1"1B'"b+*&:($T'0"UB'"A$17*'"$%8"W0:(3T$13+%-"+,"[+713%'"['-3-1$%T'"
KC31B"5%-B70$%")*$-$8L;"/.0.#"12)&')%2.)>51&5,5(E)5$)F"(#'&G#%&5'0E"!\\?E"S+(;"!@E"GG@I
G@];"
"

bB'%"1B'"N1B%+/*$:B3T"674h'T1"6:'$&-"=$T&;"05+"'#,)5$)=#'#(.;.'%)J'L+&"EE"!\\?E"
S+(;]E"J!IJH;"
"

)$11'*%-"+," . +T&"=7*'$7T*$TD"3%" . 3%3%/"93-$-1'*-0"5%"5%$(D-3-"+,"1B'"b'-1*$D" . 3%'"
Nf:(+-3+%"KC31B"U30+1BD"YD%'-LE"05+"'#,)5$)=#'#(.;.'%)>%+:&.0E"!\\]E"S+(;JaE"HM!I
HGJ;"
"

>*313T$("UB'+*D"$%8" . $%$/'0'%1"N87T$13+%0"N%/$/3%/")+C'*E"W8'+(+/D"$%8")*$f3-"KC31B"
)$7($">$:*+%3L;"05+"'#,)5$)=#'#(.;.'%)K:+1#%&5'E"!\\]E"S+(;G!E"
"

b+*&3%/"C31B"1B'"q60$*1c" . $TB3%'0">+0:71'*3`$13+%"$%8"1B'"93-T+7*-'"+,"
5%1B*+:+0+*:B3-0"3%"_*/$%3`$13+%-;">%+:&.0)&')!+,%+".0N)F"(#'&G#%&5'0)#':)>51&.%&.0E"
!\\@E"S+(;!E"G@JIGH@;"
"

UB'"W8'+(+/D"+,")*+,'--3+%$(3-0"$%8"b+*&">+0:71'*3`$13+%0"5%"W%-131713+%$(3-1"6178D"+,"
U'TB%+(+/3T$(">B$%/''"KC31B"5%-B70$%")*$-$8L;"B+;#')/.,#%&5'0E"!\\aE"S+(;a]E"!aJJI
!a@?;"
"

9*7/"U'-13%/"$-"6D04+(3T" . $%$/'*3$("5T13+%"KC31B" . 3&'">$S$%$7/BL;"F"(#'&G#%&5')
>1&.'1.N"!\\aE"S+(;@E"GH]IG]!;"
"

6D04+(3T")*+T'--'-"3%"1B'"W0:('0'%1$13+%"+,"U'TB%+(+/3T$(">B$%/'0"5"6D04+(3T"
W%1'*$T13+%3-1"6178D"+,"b+*&">+0:71'*3`$13+%;"H1#:.;E)5$)=#'#(.;.'%)05+"'#,E"!\\aE"
S+(;JHE"!aMMI

"

P BLISHED PANEL DISC SSIONS

9+T1+*$("N87T$13+%"$%8"1B'"U'$TB3%/" . 3--3+%;"5"93$(+/7'"C31B"X'$%"=$*17%'&E"2'''
=7*&'E"X$%'"d3$T+44'I . 3(('*E">*$3/"27%84'*/"$%8")7-B&$($")*$-$8;*)05+"'#,)5$)*
=#'#(. ; . '%)K:+1#%&5'-(!\\HE"S+(;GM;"

"

QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

"

SPECIAL EDITORIAL ASSIGNMENTS

>+I'831+*"KC31B" $7($">$:*+%3LE"-:'T3$("3-7'"+%">*313T$("UB'+*D"$%8" . $%$/'0'%1"
N87T$13+%E""*05+"'#,)5$)=#'#(. ; . '%)K:+1#%&5'*E"!\\]E"S+(;"G!;"

"

>+I'831+*"KC31B"9$,%$"ND(+%LE"-:'T3$("3--7'"+%"1B'"Y3-1+*D"+," b +*&:($T'"N0:+C'*0'%1E""
*05+"'#,)5$)H<<,&.:)P.2#-&5"#,)>1&. '1.*E"GMM!E"S+(;J]E"A+;"!;)

"

>+I'831+*"KC31B"5%-B70$%")*$-$8LE"-:'T3$("3--7'"+%"W%1'*:*'13S'"d'%*'-"3%"_*/$%3`$13+%"
['-'$*TBE"*F"(#'&G#%&5')/.0.#"12)=.%25:0*E"GMMGE"S+(;@E"A+;"!;"

"

" " QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

"

CONFERENCE PROCEEDINGS

)*$T13T$((D"9$%/'*+7-0"Nf:(+*3%/"1B'"Y'/'0+%D"+,"q)*$/0$13-0c"3%"1B'"93-T+7*-'"+,"
N%S3*+%0'%1$(" . $%$/'0'%1"KC31B" . 3TB$'("N(0'-L;"*7"51..:&'(0)5$)%2.)M#'(+#(.)&')
P+0&'.00)#':)F"(#'&G#%&5'0*">+%,'*'%T'E"_B3+"61$1'"R%3S'*-31DE">+(7047-E"_B3+E" . $D"
!\\\;"

"

KR%LC3((3%/"1+"['-3-1e">7%%3%/"5T1+*-E"W8'+(+/3T$("97:'-"$%8"1B'"93-T7*-3S'"
>+%-131713+%"+,"[+713%'" b +*&:($T'"['-3-1$%T'"KC31B"5%-B70$%")*$-$8L;"*7"51..:&'(0)5$)
%2.)RS%2)J'%."'#%&5'#,)M#C5+")7"51.00)!5'$.". '1.*E"2+%8+%E" . $*TB"!\\\;"

"

b B$1"3%"1B'" b +*(8"9+'-"W%1'*%$13+%$(" . '$%e"5")*'(303%$*D"W%S'-13/$13+%"+," . =5"
)*+/*$0"=*+TB7*'-"3%"A+*1B"5 0'*3T$%"=7-3%'--"6TB++(-"KC31B">B*D--$"6B$*:L;"
*7"51..:&'(0)5$)%2.)H''+#,)=..%&'(0)5$)%2.)K#0%."')H1#:. ; E)5$)=#'#(. ; . '%E" . $D"!\\HE"
b $-B3%/1+%"9;>;"

"

. +T&"=7*'$7T*$TD"$-"$" i 'D"^$T1+*"3%"W%87-1*3$(">*3-'-0"5%"5%$(D-3-"+,"1B'" b '-1*$D">+$("
. 3%'"93-$-1'*"KC31B"U30+1BD"YD%'-L;"*7"51..:&'(0)5$)%2.)K#0%."')H1#:. ; E)5$)
=#'#(. ; . '%E" . $D"!\\@E"W1B$T$E"A'C"F+*&;"*

"

UB'"[$13+%$(3`$13+%"+,"1B'"_*/$%3`$13+%$(" . ''13%/0"W0:(3T$13+%-"+,"d*+7:"67::+*1"
6D-1'0-",+*")+C'*E"6D04+(3-0"$%8"^$T'Ib +*&"KC31B"9$%3$(">($::'*L;"*7"51..:&'(0)5$)
%2.)H''+#,)=..%&'(0)5$)J!J>"KW%1'*%$13+%$(">+%,'*'%T'"+%"W%,+*0$13+%"6D-1'0-LE"
9'T'04'*"!\\JE"^(+*38$;"

"

9*7/"U'-13%/"3%"1B'" b +*&:($T'0"UB'"6D 0 4+(3T" . $%$/' 0 '%1"+,"$%" _*/$%3`$13+%$(">*3-3-" KC31B" . 3TB$'(">$S$%$7/B"$%8"X+B%" . 3TB$'("_$&'-L;"*7"51..:&'(0)5$)%2.)K#0%."')*
H1#:.;E)5$)=#'#(.;.'%E" . $D"!\\GE"=$(13 0 +*';"

23,'"$%8"9'$1B"3%">$*''*0"5%"Nf:'*3'%13$("Nf'*T3-'"23%&3%/">$*''*")($%%3%/"1+"6178'%1" Z$(7'-"$%8"A+13+%-"+,"1B'"q d ++8"23,'c;"*7"51..:&'(0)5$)%2.)K#0%."')H1#:.;E)5$)*
=#'#(.;.'%E" . $D"!\\GE"=$(13 0 +*';"

UB'">+%T':1"+,"5(3'%$13+%"$%8" b +*&:($T'"N 0 :+C'* 0 '%1"KC31B"5%-B7 0 $%")*$-$8L;"
7"51..:&'(0)5$)%2.)K#0%."')H1#:.;E)5$)=#'#(.;.'%E" . $D"!\\!E"Y$*1,+*8;"

qW 0 $/3%/c"1B'"_*/$%3`$13+%"3%"1B'">($--*++ 0 0")+*1$317*'"$-"$")'8$/+/3T"9'S3T'",+*" Nf:'*3'%T3%/"93S'*-'"_*/$%3`$13+%$("['$(313'-"KC31B"X;" . 3TB$'(">S%$7/BL;"*7"51..:&'(0)5$))%2.)K#0%."')H1#:.;E)5$)=#'#(.;.'%E"* . $D"!\\ME"=7,,$(+;"

UB'">+ 0 :71'*3`$13+%"+," b B31'I>+(($*" b +*&"3%"_*/$%3`$13+%-0"5">*313T$("$%8" >+ 0 :*'B'%-3S'"67*S'D"+,"1B'"231'*$17*'"C31B"67//'-13+%-",+*"^717*'"['-'$*TB;"
*7"51..:&'(0)5$)%2.)D.1&0&5')>1&.'1.0)H''+#,)=..%&'(0E"*A+S' 0 4'*"!\?\E"A'C"_*('$%-;""

_*/$%3`$13+%I . $&3%/"$%8" . $3%1'%$%T'0"5%"W%1'*:*'13S'"5TT+7%1"+,"$"R%3+%c-"^+* 0 $13+%" 3%"F$('"R%3S'*-31D;"*7"51..:&'(0)5$)%2.)K#0%."')H1#:.;E)5$)=#'#(.;.'%E"* . $D"!\?\;"

QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ

REFEREED CONFERENCE PRESENTATIONS

>$**3'8"$%8"9'(3S'*'80"[$T3$(3`'8"d'-1$13+%$(2$4+*"$%8"A'C">+%1+7*-"+,")*'T$*31D;")$:'*":*'-'%1'8"$1"1B'"5%%7$(" . ''13%/-"+,"1B'"N$-1'*%"6+T3+(+/3T$("6+T3'1D" . ''13%/-E")B3($8'(:B3$E"^'4*7$*D"GMGM;""

UB'"U+*%"g73(10"R%8'*-1$%83%/">+%1' 0 :+*$*D"W8'%131D">+%,(3T1-"UB*+7/B"1B'"Z'B3T('"+," Nf:(+-3S'"_*/$%3`$13+%$("N%T+7%1'*-;")$:'*":*'-'%1'8"$1"1B'"=3$%%7$("g[ . "Kg7$(31$13S'" ['-'$*TB" . '1B+8-"3%"_*/$%3`$13+%-L">+%,'*'%T'E"5(47m7'*m7'E"A'C" . 'f3T+E" . $*TB" GM!?;""

5%3 0 $("Nf13%T13+%-"$%8"NT(3:-'"+,"1B'"6$T*'80"UB'" b +*(8"+,"1B'"^7*"U*$8'"3%"A'C" N%/($%8"$%8"1B'"d*'$1"2$&'-"['/3+%"3%"1B'"!H1B"$%8"!]1B

"

W%-131713+%-"$%8"Nf+13T3`$13+%0" . $%$/3%/"1+" i '':"1B'"_1B'*"3%")($T';")$:'*":*'-'%1'8"$1"
1B'"5%%7$(" . ''13%/-"+,"1B'"5T$8'0D"+," . $%$/''0'%1E"9'%S'*E"57/7-1"GMMG;"
"
9'-3/%3%/"93,,'*'%T'0"93S'*-31D" . $%$/''0'%1"$%8"1B'"93-T+7*-'"+,"^$-B3+%"KC31B"
5%-B70$%")*$-$8L;")$:'*":*'-'%1'8"$1"1B'"!?1B"5%%7$(" . ''13%/-"+,"Nd_6"KN7*+:'$%"
d*+7:",+*"_*/$%3`$13+%"61783'-LE"=$*T'(+%$E"X7(D"GMMG;""
"
='1C''%"A$13S'"$%8")*+,'--3+%$("61*$%/''*0"N1B%+/*$:B3T"93('00$-"3%"1B'"6178D"+,"
_*/$%3`$13+%$(">7(17*'-;")$:'*":*'-'%1'8"$1"1B'"5%%7$(" . ''13%/-"+,"1B'"5T$8'0D"+,"
. $%$/''0'%1E"b$-B3%/1+%E"9;>;E"57/7-1E"GMM!;"
"
>*+--3%/">7(17*'-0"5")+-1T+(+%3$("5%$(D-3-"+,"$%"W%1'*I_*/$%3`$13+%$("N%T+7%1'*"KC31B"
5/%'1$" . +7('11'-L;")$:'*":*'-'%1'8"$1"1B'">*313T$(" . $%$/''0'%1"61783'-">+%,'*'%T'E"
. $%TB'-1'*E"R;i;E"X7(D"GMM!;"
"
>(+-'"N%T+7%1'*-"C31B"5T$8'03T"93-T*'831$13+%"KC31B" . $1-"5(S'--+%L;")$:'*":*'-'%1'8"
$1"1B'">*313T$(" . $%$/''0'%1"61783'-">+%,'*'%T'E" . $%TB'-1'*E"R;i;E"X7(D"GMM!;"
"
. $%$/3%/"2'/3130$TD"3%"qW(('/3130$1'c"_*/$%3`$13+%-;")$:'*":*'-'%1'8"$1"1B'"W%S31'8"
>+%,'*'%T'"+%"W%-131713+%-E">+%,(3T1"$%8">B$%/'E"A+*1BC'-1'*%"R%3S'*-31DE"NS$%-1+%E"W2E"
9'T'04'*"GMMM;"""
"
)*+03-3%/"[$3%4+C-0"5%"W%-131713+%$("5%$(D-3-"+,"93S'*-31D" . $%$/''0'%1"3%"A+*1B"
50'*3T$;")$:'*":*'-'%1'8"$1"1B'"5%%7$(" . ''13%/-"+,"1B'"5T$8'0D"+," . $%$/''0'%1E"
U+*+%1+E"57/7-1"GMMM;"
"
6$S3%/"1B'"N$*1B"W%T;0"UB'"2$%/7$/''"$%8"2+/3T"+," . $*&'1"93-T+7*-'-"3%"N%S3*+%0'%1$("
_*/$%3`$13+%-"KC31B"X',,"NS'*'11L;")$:'*":*'-'%1'8"$1"1B'"5%%7$(" . ''13%/-"+,"1B'"
5T$8'0D"+," . $%$/''0'%1E"U+*+%1+E"57/7-1"GMMM;"
"
>$-13%/"1B'"A$13S'"674h'T10"N1B%+/*$:B3T")*$T13T'"$%8"1B'"K['L)*+87T13+%"+,"93,,'*'%T'"
KC31B"5%-B70$%")*$-$8L;")$:'*":*'-'%1'8"$1"1B'"5%%7$(">+%,'*'%T'"+,"Nd_6"KN7*+:'$%"
d*+7:"+%"_*/$%3`$13+%"61783'-LE"Y'(-3%&3E"X7(D"GMMM;"
"
A$13S'")($T'-"3%"_*/$%3`$13+%$("6:$T'-0"N1B%+/*$:B3T"i%+C('8/''$%8"1B'"[':*+87T13+%"
+,"93,,'*'%T';")$:'*":*'-'%1'8"$1"1B'">*+--*+$8-"3%">7(17*$("61783'-"W%1'*%$13+%$("
>+%,'*'%T'E"=3*03%/B$0E"R%31'8"i3%/8+0E"X7%''GMMM;"
"
N1B%+/*$:B3T"g7'-13+%-"$%8"1B'"g7'-13+%"+,"N1B%+/*$:BD0"X+7*%'D3%/",*+0" . '1B+8"1+"
U*$8313+%"3%"$")(7*$(3-13T"b+*(8"KC31B"5%-B70$%")*$-$8L;")$:'*":*'-'%1'8"$1"1B'"5%%7$("
. ''13%/-"+,"1B'"5T$8'0D"+," . $%$/''0'%1E">B3T$/+E"!\\\;"
"
UB'"[',('T13+%"+,"W%-131713+%$(" . D1B-"3%"1B'"61*7T17*3%/"+,"$"A$13+%$(" . '83T$("[' -'$*TB"
W%313$13S'"KC31B"X7831B"=3*8-'(("<"b3(,*'8"#'*4'L;")$:'*":*'-'%1'8"$1"1B'"5%%7$(" . ''13%/-"
+,"1B'"5T$8'0D"+," . $%$/''0'%1E">B3T$/+E"!\\\;"
"

"

UB'"6D04+(3-0"+," b+*&">+0:71'*3`$13+%;")$:'*":*'-'%1'8"$1"1B'"5%%7$(" . ''13%/-"+,"1B'" 5T$8'0D"+," . $%$/'0'%1E"2$-"Z'/$-E"!\\G;"

"

^*+0" . '(13%/")+1"1+"6$($8"=+C(0" . $%$/3%/">7(17*$("W8'%1313'-"$-"1B'" b$((-">+0'" U704(3%/"9+C%;")$:'*":*'-'%1'8"$1"5%%7$(" . ''13%/-"+,"1B'"_=U>"K_*/$%3`$13+%$(" ='B$S3+*"U'$TB3%/">+%,'*'%T'LE">$(/$*DE">$%8E"!\\G;"

"

UB'"W8'+(+/D"+,")*+,'--3+%$(3-0"$%8"1B'"61*7T17*3%/"+,"_*/$%3`$13+%$(" ['$(31D0"5%" W%1'*:*'13S'"6178D"+," b+*&">+0:71'*3`$13+%"KC31B"5%-B70$%")*$-$8L;")$:'*":*'-'%1'8"$1"" UB'"5%%7$(" . ''13%/"+,"1B'"5T$8'0D"+," . $%$/'0'%1E" . 3$03"='$TBE"!\\!;"

"

UB'"_4317$*D"Nf'*T3-'0"23%&3%/"W8'$-"+,"1B'"rd++8"23,'c"C31B">$*''*")($%%3%/;")$:'*" :*'-'%1'8"$1"1B'"5%%7$(" . ''13%/"+,"1B'"_=U>"K_*/$%3`$13+%$("='B$S3+*"U'$TB3%/" >+%,'*'%T'LE"='((3%/B$0E" b 5E"!\\!;"

"

9',3%3%/"U'TB%+(+/3T$("U*$%-,+*0$13+%-0"[$13+%$("$%8"[+0$%13T">+%-1*7T13+%-"+," _*/$%3`$13+%$(" ['$(313'-"$-" . +8'-"+,"5TT+0 0+8$13+%;")$:'*":*'-'%1'8"$1"6>_6" K61$%83%/">+%,'*'%T'"+%"_*/$%3`$13+%$("6D04+(3-0LE"6$$*4*7T&'%E"d'*0$%DE"!\\M;"

"

Z+3T'-",+*0"1B'"N('T1*+%3T"6B$8+C0" b+0'%c-"Nf:'*3'%T'-"C31B"1B'">+0:71'*3`$13+%"+," bB31'I>+(($*" b+*&;")$:'*":*'-'%1'8"$1"1B'"5%%7$(" . ''13%/"+,"1B'"5T$8'0D"+," . $%$/'0'%1E"6$%"^*$%T3-T+E"!\\M;"

"

_,")D*$038-E"2$88'*-"$%8" . $`'-0"W%1'*:*'13%/"_*/$%3`$13+%$(")+*1*$31-"3%"1B'">($--*++0" KC31B" . 3TB$'(">S%$7/BL;")$:'*":*'-'%1'8"$1"1B'"5%%7$(" . ''13%/"+,"_=U>" K_*/$%3`$13+%$("='B$S3+*"U'$TB3%/">+%,'*'%T'LE">+(7043$E" . 3--+7*3E"!\?\;"

"

" " QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

"

RESEARCH ORKSHOPS AND PANELS

"

)$%'(3-1E"6T*''%3%/"$%8"93-T7--3+%"+,"^3(0E"*RTUV*E"U$%/" . 7-'70E"5:*3("GM!];""

"

_*/$%3`'*"$%8")*'-'%1'*E")*+,'--3+%$("9'S'(+:0'%1" b+*&-B+:E"j>*313T$("K['L" >+%-38'*$13+%-0" . $::3%/"$%8"N%/$/3%/"C31B"1B'",3'(8"+,"> . 6;"5%%7$(" . ''13%/-"+,"1B'" 5T$8'0D"+," . $%$/'0'%1E"Z$%T+7S'*E"57/7-1"GM!@;"

"

_*/$%3`'*"$%8")*'-'%1'*E")$%'("+%"j bB31'"3-"5(-+"$">+(+*0"W8'%131D"$%8")*3S3('/'"3%"$" q)+-1I[$T3$(c"R;6;5;E"6&380+*'">+((('/'E"_T1+4'*"GM!G;""

)*'-'%1'*E")*+,'--3+%$("9'S'(+:0'%1" b+*&-B+:E"qW0$/3%3%/"_1B'*C3-'0")+-1T+(+%3$("

"

>B$3*"$%8"_*/$%3`'*E")*+,'--3+%$("9'S'(+:0'%1"b+*&-B+:E"q>+*:+*$1'"6+T3$("
['-:+%-343(31D"C31B"$">*313T$("N8/';c"6:+%-+*'8"4D">*313T$(".$%$/'0'%1"61783'-"$%8"
6+T3$("3--7'-"3%".$%$/'0'%1"93S3-3+%-E"5T$8'0D"+,".$%$/'0'%1"5%%7$(".''13%/-E"
.+%1*'$(E"57/7-1"GM!M;"

"

)$%'(3-1E"jW003/*$13+%"3%"1B'"R;6;0"W0:(3T$13+%-",+*"_7*"^717*'k;"N0:3*'"61$1'">+(('/'E"
6$*$1+/$"6:*3%/-E"A'C"F+*&;"9'T'04'*"GM!M;"

)$%'(3-1E")*+,'--3+%$("9'S'(+:0'%1"b+*&-B+:E"W%1'**+/$13%/">*313T$(".$%$/'0'%1"
61783'-;"6:+%-+*'8"4D"1B'"_*/$%3`$13+%$("9'S'(+:0'%1"<">*313T$(".$%$/'0'%1"61783'-"
93S3-3+%-E"5T$8'0D"+,".$%$/'0'%1"5%%7$(".''13%/-E">B3T$/+E"57/7-1"GMM\;"

"

_*/$%3`'*"$%8")*'-'%1'*E")*+,'--3+%$("9'S'(+:0'%1"b+*&-B+:E"q2++&3%/",+*"
KR%L>+00+%"d*+7%80""g7$%131$13S'"$%8"g7$(31$13S'"5::*+$TB'-"1+"6178D3%/"b+*&:($T'"
93S'*-31D;c""b+*&-B+:"-:+%-+*'8"4D"1B'">*313T$(".$%$/'0'%1"61783'-"$%8"d'%8'*"<"
93S'*-31D"3%"_*/$%3`$13+%-"93S3-3+%-"+,"1B'"5T$8'0D"+,".$%$/'0'%1E")B3($8'(:B3$E"
57/7-1"GMM];"

"

)$%'(3-1E")*+,'--3+%$("9'S'(+:0'%1"b+*&-B+:0">*313T$("N%T+7%1'*-0"2$4+*")*+T'--E"
61*7T17*$13+%"$%8")+-1T+(+%3$(3-03%"93$(+/7';"5T$8'0D"+,".$%$/'0'%1"5%%7$("
.''13%/-E"Y+%+(7(7E"YC33E"57/7-1"GMM@;"

"

W%S31'8")*'-'%1'*E"d9_"Kd'%8'*"<"93S'*-31D"3%"_*/$%3`$13+%-L"9+T1+*$(">+%-+*1370;"
5%%7$(".''13%/-"+,"1B'"5T$8'0D"+,".$%$/'0'%1E"Y+%+(7(7E"YC33E"57/7-1"GMM@;"

"

W%S31'8")*'-'%1'*E">.6"K>*313T$(".$%$/'0'%1"61783'-L"9+T1+*$("b+*&-B+:0"93-T7--"D+7*"
9+T1+*$("b+*&"$%8">$*''*"C31B"2'$83%/">.6"6TB+($*-;"5T$8'0D"+,".$%$/'0'%1"
5%%7$(".''13%/-E"Y+%+(7(7E"Y$C$33E"57/7-1"GMM@;""

"

>+I_*/$%3`'*"$%8">+I^$T3(31$1+*"+,"9+T1+*$("b+*&-B+:"+%"_*/$%3`$13+%"UB'+*D;"
6:+%-+*'8"4D"i5U5X5",+*"9+T1+*$("6178'%1-"3%".$%$/'0'%1E"2$:::''%*$%1$"
R%3S'*-31D+,"U'TB%+(+/DE"2$:::''%*$%1$E"X7%''HIX7%''!ME"GMM@;"

"

_*/$%3`'*"$%8")*'-'%1'*E")*+,'--3+%$("9'S'(+:0'%1"b+*&-B+:E"q[$3-3%/"Z+3T'-0"
67-1$3%3%/">*313m7''3%"_*/$%3`$13+%"['-'$*TBc;"b+*&-B+:"-:+%-+*'8"4D"1B'"['-'$*TB"
.'1B+8-"$%8">*313T$(".$%$/'0'%1"61783'-"93S3-3+%-"+,"1B'"5T$8'0D"+,".$%$/'0'%1E"
6'$11('E"57/7-1"GMMJ;"

"

^$T3(31$1+*"$%8")*'-'%1'*E")*+,'--3+%$("9'S'(+:0'%1"b+*&-B+:E"q>*$,13%/"g7$(31$13S'"
^3'(8C+*&c;"b+*&-B+:"-:+%-+*'8"4D"1B'">*313T$(".$%$/'0'%1"61783'-E"_*/$%3`$13+%"
UB'+*D"$%8"['-'$*TB".'1B+8-"93S3-3+%-"$1"1B'"5%%7$(".''13%/-"+,"1B'"5T$8'0D"+,"
.$%$/'0'%1E"6'$11('E"57/7-1"GMMJ;""

"

>+I>B$3*"<"^$T3(31$1+*E")*+,'--3+%$("9'S'(+:0'%1"b+*&-B+:E"q^+((+C3%/"1B'">*313T$("
U7*%0".$1'*3$(3-0E"9'T+%-1*7T13+%"<"W%-1317 13+%$("N1B%+/*$:BDc;"['-'$*TB".'1B+8-"

"

93S3-3+%E"5%%7$(" . ''13%/-"+,"1B'"5T$8'0D"+," . $%$/'0'%1E" b $-B3%/1+%E"9;>;E"57/7-1"
GMM!;"

"

>B$3*"<"_*/$%3`'*E")*+,'--3+%$("9'S'(+:0'%1" b +*&-B+:E"q . ''13%/"1B'">B$(('%/'-"+,"1B'"
A'C"U30'-0">*313T$("5::*+$TB'-",+*"U'$TB3%/"61*$1'/D"$%8" . $%$/'0'%1;c" . $%$/'0'%1"
N87T$13+%"93S3-3+%E"5%%7$(" . ''13%/-"+,"1B'"5T$8'0D"+," . $%$/'0'%1E"U+*+%1+E"57/7-1E"
GMMM;"

"

>+ITB$3*"$%8"^$T3(31$1+*E")*+,'--3+%$("9'S'(+:0'%1" b +*&-B+:E"jW%1'*:*'13S'"
_*/$%3`$13+%$("['-'$*TB"3%"1B'"A$**$13S'"d'%*'-kE"['-'$*TB" . '1B+8-"93S3-3+%E"5%%7$("
. ''13%/-"+,"1B'"5T$8'0D"+," . $%$/'0'%1E"U+*+%1+E"57/7-1"GMMM;"

"

b +*&-B+:"_*/$%3`'*E"jW%1'*:*'13%/"1B'"W%1'*:*'13S'0"93,,'*'%1"d'%*'-"+,"g7$(31$13S'"
['-'$*TB;")*'I>+%,'*'%T'" b +*&-B+:E"['-'$*TB" . '1B+8-"93S3-3+%E"5%%7$(" . ''13%/-"+,"
1B'"5T$8'0D"+," . $%$/'0'%1E"6$%"93'/+E"!\\?;"

"

^$T3(31$1+*E"j=73(83%/">+(('T13S'"['-'$*TB"61*'$0-k;")*'I>+%,'*'%T'" b +*&-B+:E" b +0'%"
3%" . $%$/'0'%1"93S3-3+%E"5%%7$(" . ''13%/-"+,"1B'"5T$8'0D"+," . $%$/'0'%1E">3%T3%%$113E"
!\\H;"

"

)*'-'%1'*E"jW-"Z$(7'I^*'"U'$TB3%/"1B'" b $-1'($%8"+,"5T$8'03T"N%1'*:*3-'ek"9+T1+*$("
>+%-+*1370E" b '-1'*%"5T$8'0D"+," . $%$/'0'%1" . ''13%/-E"=$%,,E">$%8E"!\\H;"

"

)$%'(3-1E"jR%3,D3%/"_*/$%3`$13+%"UB'+*D0")$*$83/0E")$*$83/0-"+*"),',,'*83/0ek"9'4$1'"
-:+%-+*'8"4D"1B'"=7-3%'--")+(3TDE"_*/$%3`$13+%"UB'+*D"$%8" . $%$/'*3$(">+/%313+%"
93S3-3+%-E"5%%7$(" . ''13%/"+,"1B'"5T$8'0D"+," . $%$/'0'%1E"Z$%T+7S'*E"!\\@;"

"

)$%'(3-1E"jUB'" . 7(13T7(17*$(">($--*++0k;")*'I>+%,'*'%T'" b +*&-B+:E"_*/$%3`$13+%$("
='B$S3+*"93S3-3+%E"5%%7$(" . ''13%/"+,"1B'"5T$8'0D"+," . $%$/'0'%1E"9$(($-E"!\\a;"

"

6D0:+-370">B$3*E"j_*/$%3`$13+%$("U'TB%+(+/3'-"$%8"1B'"U'f17*'"+," b +*&0">B$%/3%/"
>+%,3/7*$13+%-"+,")+C'*E"i%+C('8/'"$%8" . '$%3%/"3%")+-1IW%87-1*3$("W%-131713+%-;k"
5%%7$(" . ''13%/"+,"1B'"5T$8'0D"+," . $%$/'0'%1E"9$(($-E"!\\a;"

"

)$%'(3-1E"jUB'"A'f1"d'%'*$13+%0" b B+" b 3(("U'$TB"UB'0ek"5%%7$(" . ''13%/"+,"1B'"N$-1'*%"
5T$8'0D"+," . $%$/'0'%1E"5(4$%DE"A'C"F+*&E"!\\a;"

"

" " QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

"

RESEARCH IN PROGRESS

_*/$%3`$13+%$("_884$((-"$%8"_71($C-0" . $%$/3%/"W(('/3130$TD"7%8'*"j23$43(313'-"+,"
9'S3$%T'k"KC31B"5%-B70$%")*$-$8"$%8" . $7*''%"6T7((DL;"

"

!#<&%#,&0 ; W0)D#"6)!5 ; <,.X&5'3)/#1.N)=#"6.%0)#':)J:. '%&%E)K=++&" 0$%7-T*3:1"3%"
:*':$*$13+%;""

"

"

*M&C."#,)Y?"@&1%&5'03)H')J'0%&%+%&5'#,)H'#,E0&0)5$)!+,%+"#,)!5'$,&1%0)&')H;."&1#')M&C."#,) H"%0)!5,,.(.0"K=++&"0$%7-T*3:1"7%8'*":*':$*$13+%L"*

"

" " QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

RESEARCH GRANTS

"

6&38 0+*'"67 0 0'*">+($4+*$13+%"d*$%1"Ks!MMML;"GMGM;">$**3'8"$%8"9'(3S'*'80".$::3%/" 1B'">+%1+7*-"+,"d(+4$">+0 0'*T3$("67**+/$1'".+1B'*B++8;""

6&38 0+*'"67 0 0'*">+(($4+*$13+%"d*$%1"Ks!EHMML;"GM!@;"^$31B"3%"1B'"b+*&:($T'0" 6'T7($*3-0"3%"1B'"N 0 (+D 0'%1"6'T1+*-"+,"6C'8'%E"9'%0$*&E"^*$%T'E"W%83$"$%8"1B'" R;6;5;"

"

X$%"b$(($%8'*"^+7%8$13+%"+,"1B'"=$%&"+,">+0 0'*T'"+,"6C'8'%"K*B#':.,0C#'6.'*LE" 6C'8'%"Ks!?HEMMMLE"j 93S'*-31D")*+,'--3+%$(-"3%"1B'"6C'83-B"N 0:(+D 0'%1"6'T1+*kE".$*TB" GM!MIGM!@;"

"

6&38 0+*'">+(('/'E")*+h'T1">+0:('13+%"d*$%1"Ks@MMML"X7%'"GMMaE"1+"T+0:('1'"4++&" 0$%7-T*3:1E"*!"#$%&'()*+#,&%#%&-.)/.0.#"12;*"

"

UB'"6C'83-B"g7$(31D"+,"b+*&(3,'"^+7%8$13+%"?*Y5"06'&'(0)H"C.%0,&-0*LE"61+T&B+(0E" 6C'8'%"KsGaMEMMMLE"j.$%$/3%/"93S'*-31D"$-"$%"_*/$%3`$13+%$(")*+T'--kE"GMM!IGMM@;"

"

UB'"=$%&"+,"6C'8'%c-"U'*T'%1'%$*D"^+7%8$13+%"K*/&60C#'6.')O+C&,.+;0$+':*LE"6C'8'%" KsGJMEMMMLE"jA$**$13S'-"+,"2'/313 0$TD"3%"1B'"i3((3%/"W%87-1*3'-0"UB'"5Tm73-313+%"+," 6+T3$("^31%'--"$0+%/"1B'"d7%E"U+4$TT+E"5*0$0'%1E"='',"$%8"^7*"W%87-1*3'-E".$*TB" GMMMIGMMJ;"

"

['-'$*TB"W%-13171'"3%"27%8">*%#"%C&:"#(*Ks@MMMLE"_*/$%3`$13+%$(")*+T'--"3%" jW(('/313 0$1'k"W%87-1*3'-0"61783'-"+,"1B'"1+4$TT+E"/7%E"C'$:+%-"$%8",7*"3%87-1*3'-;"

"

5(4'*1$"N%'*/D">+*:+*$13+%"['-'$*TB"^'((+C-B3:"d*$%1"Ks!MEMMMLE"j>+0 07%3T$13+%"$%8" >7(17*'"3%"1B'"A'1C+*&'8"_*/$%3`$13+%kE".$D"!\\H;"

"

6+T3$("6T3'%T'-"$%8"Y70$%313'-"['-'$*TB">+7%T3("K66Y[>L"+,">$%$8$E"_TT$-3+%$(" >+%,'*'%T'"d*$%1"KsaMMMLE"j=*'$&1B*+7/B-E"=*'$&I3%-"$%8"=*'$&I+71-0"d'%8'*".''1-"1B'" 5T$8'0DE"!\\@;"

"

6+T3$("6T3'%T'-"$%8"Y70$%313'-"['-'$*TB">+7%T3("K66Y[>L"+,">$%$8$"d*$%1"Ks@MEMMMLE"" j93S'*-31D"$%8"93-T*30 3%$13+%"3%"1B'"A+*1B"5 0'*3T$%"b+*&:($T'kE"!\\@I!\\?;"

"

5(4'*1$"N%'*/D">+*:+*$13+%"['-'$*TB"^'((+C-B3:"d*$%1"Ks!MEMMMLE"j.$%$/3%/"1B'" .7(13T7(17*$("_*/$%3`$13+%kE"X$%7$*D"!\\@;"

5(4'*1$"N%'*/D">+*:+*$13+%"['-'$*TB"^'((+C-B3:"d*$%1"Ks!MEMMMLE"jR%8'*-1$%83%/"
N0:(+D''"['-3-1$%T'kE".$D"!\\a;"

QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

IN ITED G ES LEC RES & SCHOLARL PRESEN A IONS

UB'"_:'%"9++*0"W%T(7-3S'NfT'(('%T'"$%8"31-">B$(('%/'-;"i'D%+1'"588*'--"1+"1B'"
W0:('0'%1"93S'*-1D">+%'*'%T';"61+T&B+(0E"6':1'04'*"GHE"GM!\;"

^*$T17*'8"[$3%4+C-0"W8'%131D">+%,(3T1-"3%"234'*$("N%T($S'-;"W%S31'8"-D0:+-370E"
61+T&B+(0"6TB++("+,"NT+%+03T-E"61+T&B+(0E"6':1'04'*"GM!\;"

>$:31$(3-0c-"9$*&">+0:('f3+%0"UB'+*3`3%/"[$T'E".$*&'1-"$%8"W8'%131D;"W%S31'8"['-'$*TB"
6'03%$*E"6TB++("+,"=7-3%'--"$%8"NT+%+03T-E"27%8"R%3S'*-31DE"6C'8'%E"6':1'04'*"GM!\;"

A'C"93S'*-31D"U'%-3+%-"3%"234'*$("N%T($S'-;"i'D%+1'"588*'--"1+"UB'"93S'*-31D"$%8"
W%-131713+%$(">B$%/'"b+*&-B+:;"X+3%1(D"-:+%-+*'8"4D"1B'"9'-$71'(-"^$T7(1D"+,"
.$%$/'0'%1E".Td3(("R%3S'*-31D"$%8"1B'">'%1'*",+*"Y70$%"[3/B1-"$%8"2'/$(")(7*$(3-0E"
.Td3(("^$T7(1D"+,"2$CE".+%1*'$(E"X7%'"?E"GM!H;"

=(+C3%/"60+&'0"UB'".$%$/'0'%1"+,".+*$("W(('/313 0$TD"3%"1B'"R;6;"U+4$TT+"W%87-1*D;"
W%S31'8"['-'$*TB"6'03%$*E"W%83$%"W%-131713'"+,".$%$/'0'%1E"5B0'8$4$8E"W%83$E"X$%7$*D"
GM!H;"

UB'"^$1'"+,">*313T$(".$%$/'0'%1"61783'-"3%"$"d(+4$(3`'8"b+*(80"i'D%+1'"588*'--"1+"1B'"
_*/$%3`$13+%"UB'+*D"93S3-3+%"+,"565>"K$803%3-1*$13S'"6T3'%T'-"5--+T3$13+%"+,">$%8LE"
Y$(3,$fE"X7%'"GM!@;"

Z'3('8"['0$*&-0"W8'%131D">+%1'-1-E"d'%8'*"9D%$03T-"$%8"1B'"93-T+7*-'"+,"1B'"W-($03T"
Y'$8-T$*,"3%"1B'"6T$%83%$S3$%"b+*&:($T';"_%1$*3+"W%-131713'"+,"61783'-"3%"N87T$13+%"
K_W6NLE"R%3S'*-31D"+,"U+*+%1+E"5:*3("GM!@;"

W%-131713+%$("N%1*':*'%'7*-B3:"$%8"d'%8'*"W8'%1313'-"3%"1B'"R;6;"U+4$TT+"W%87-1*DE"!\GMI
!\H@E"6TB++("+,".$%$/'0'%1E"R%3S'*-31D"+,".$--$TB7-'11-E"=+-1+%E"5:*3("GM!H;"

.+*'"50'*3T$%"UB$%"5::(")3'0"50'*3T$c-"9'$8(D"[+0$%T'"C31B"='',;"W%S31'8")('%$*D"
2'T17*'"$1"1B'"5%%7$(".''13%/"+,"1B'"61$%83%/">+%,'*'%T'"+%".$%$/'0'%1"$%8"
_*/$%3`$13+%$("W%m73*D;"b$-B3%/1+%E"9;>;E"5:*3("GM!J;"

)'*03--3+%"1+"b$%8'*0"U$&3%/"W%1'*83-T3:(3%$*D"6'*3+7-(D"3%"_*/$%3`$13+%$("['-'$*TB;"
^'$17*'8"6:'$&'*"$1"1B'"i'*%"6D0:+-370"+%"=7-3%'--"$%8"1B'"234'*$("5*1E"[+TB'-1'*"
W%-131713'"+,"U'TB%+(+/DE"[+TB'-1'*E"AFE".$*TB"GM!J;"

"

"

N('T1*+%3T" . ''13%/-"$%8"_*/$%3`$13+%$("9D%$03T-;"9':$*10'%1"+,")-DTB+(+/DE"
R%3S'*-31D"+,"[3TB0+%8E"Z3*/3%3$E"X$%7$*D"!\\H;"

"

. $%$/3%/"1B'"=*$3%D" . +%-1'*0">+0:71'*-"$%8"U'TB%+(+/3T$("5%1B*+:+0+*:B3-0"3%"
_*/$%3`$13+%-;"^$T7(1D"+,"5803%3-1*$13S'"6T3'%T'-E"F+*&"R%3S'*-31DE"U+*+%1+E" . $D"!\\@;"

"

W-"1B'"b'(T+0'" . $1",+*"b+0'%" . $%$/'*-"b'$*3%/"UB3%e"UB'"V'*+f"b+0'%",+*"
NfT'(('%T'"A'1C+*&E">$(/$*DE"_T1+4'*"!\\a;"

"

"   "   QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

"

ACADEMIC HONORS AND A   ARDS

"

N8C3%" . +-'('D"2'T17*'-B3:E"GM!];"UB'" . +-'('D"2'T17*'-B3:"3-"6&380+*'">+(('/'c-"
B3/B'-1"T8'03T"B+%+*"/3S'%"$%%7$((D"1+"$",$T7(1D"3%"*'T+/%313+%"+,"1B'3*"+71-1$%83%/"
-TB+($*(D"$TB3'S'0'%1-;"

93-13%/73-B'8"Z3-313%/"^'((+CE">'%1'*",+*")74(3T"W%1'*'-1"5TT+7%13%/E"R%3S'*-31D"+,"
>$(/$*DE" . $D"GMMH;"

"

N0'*$(8" . $%$/'0'%1"['S3'C-"5C$*8",+*"_71-1$%83%/"N0:3*3T$(")$:'*E"GMMa;""

"

23-1'8"3%" *425W0)425)&')%2.)=#'#(.;.'%">1&.'1.0*"KGMMML;"2+%8+%0"N8C$*8"N(/$*;"

"

W%1'*%$13+%$("b+*&3%/" . '04'*E"27%8"['-'$*TB"W%-13171'E"27%8E"6C'8'%E"!\\\;"

"

Z;2;"N1B3*$h"5C$*8",+*")*+,3T3'%TD"3%"N%/(3-BE"R%3S'*-31D"+,".$8*$-E"!\]J;""

QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

CONFERENCE COORDINATION

_*/$%3`'*"$%8")$*13T3:$%1E"UB'"6$%8C3TB"W%1'*83-T3:(3%$*D".$&3%/"$"93,,'*'%T'" b+*&-B+:E"6$%8C3TBE".$--$TB7-'11-E"X7%'"GM!a;"6:+%-+*'8"4D"$"/*$%1",*+0"1B'"=$%&"+," >+00'*T'"+,"6C'8'%;"

>+I>+%S'%+*E".7(13%$13+%$(-"R%8'*"d(+4$(3`$13+%"61*'$0E">*313T$(".$%$/'0'%1"61783'-" >+%,'*'%T'E">$04*38/'"R%3S'*-31DE"X7(D"GMM@;"

>+I>+%S'%+*E")+-1T+(+%3$(3-0"61*'$0E">*313T$(".$%$/'0'%1"61783'-">+%,'*'%T'E" 2$%T$-1'*E"X7(D"GMMJ;"

>+I>+%S'%+*E"_:'%"U*$T&"6'--3+%E"!H1B"5%%7$(".''13%/"+,"Nd_6"KN7*+:'$%"d*+7:",+*" _*/$%3`$13+%"61783'-LE"Y'(-3%&3E"X7(D"GMMM;"

>+%S'%+*E"d(+

"

d . ' : . "ℕ) 4 5"6)#' :)F"(#'&G#%&5 '"
)
F"(#'&G#%&5 ')>%+ :& . 0)
"
F"(#'&G#%&5 ')
)
>1#' :& '#-&#')05+"'#,)5$)=#'#(. ; . '%)
)
H1#: . ; E)5$)=#'#(. ; . '%)05+"'#,)
)
H1#: . ; E)5$)=#'#(. ; . '%)/ . -& . Q)
)
=J>)*+#'%. ",E)
)
B+ ;#')/ . ,#%&5 '0)
)
F"(#'&G#%&5 ')>1& . '1 .)
)
H: ;&'&0%"#%&- .)>1& . '1 .)*+#'%. ",E)
)
J'$5"; #%&5 ')9 . 12'5,5(E)#' :)7 . 5<, .)
)
05+"'#,)5$)=#'#(. ; . '%)K: +1#%&5 ')
)

B. A C

_*/$%3`$13+%"$%8" . $%$/'0'%1"UB'+*D"93S3-3+%E"5T$8'0D"+," . $%$/'0'%1"
"
d'%8'*"$%8"93S'*-31D"3%"_*/$%3`$13+%-"93S3-3+%E"5T$8'0D"+," . $%$/'0'%1"
"
['-'$*TB" . '1B+8-"93S3-3+%E"5T$8'0D"+," . $%$/'0'%1"
"
N$-1'*%"5T$8'0D"+," . $%$/'0'%1"5%%7$(">+%,'*'%T'"
"

C. R G

6+T3$("6T3'%T'-"$%8"Y70$%313'-"['-'$*TB">+7%T3("K66Y[>L"+,">$%$8$"
"
A$13+%$("6T3'%T'"^+7%8$13+%"KA6^LE"R;6;5;"
"

D. B P

6$/'")74(3T$13+%-"
"
_f,+*8"R%3S'*-31D")*'--"
"

"

[+71('8/'")74(3T$13+%-"
"
N0'*$(8")74(3-B'*-"
"
N(-'S3'*"6T3'%T'")74(3-B'*-"
"
61$%,+*8"R%3S'*-31D")*'--"

Ga"

"

. '04'*E"U$-&"^+*T''1+"T+%-13171''$"%'C"03%+*"3%"^3(0"$%8" . '83$"61783'-E"GM!J"1+"GM!a;"

"

_*/$%3`'*E"5%%7$("2'T17*''3%"W%1'*%$13+%$("5,,$3*-E"GM!G"n":*'-'%1;""

"

^+7%8'*"$%8">+I+*83%$13+%"+,"1B''6&380+*'"['-'$*TB"

"

>B$3*"+,"674I>+0 0311' '"93*'T1'8"C31B"1B' "U$-&"+," b *313%/"$"6'T13+%"+,"1B' "9' :$*10 '%1$("
6'(,I-178D"[' :+*1"9 '$(3%/"C31B"^$T7(1D")*+,3('-E"9 'S'(+:0 '%1E"['T*7310 '%1"$%8"
['1'%13+%;"
"
>++*83%$1+*E"['-'$*TB"[+7%81$4('E" . $%$/' 0 '%1"<"=7-3%'--"9 ':$*10 '%1E"^$(("GMMMI
GMM!;"

B. L

"
. '04'*E"=7-3%'--IR%3S'*-31D")$*1%'*-B3:"W%313$13S'E"!\\?IGMMM;"
"
5--+T3$1' "93*'T1+*E"9+T1+*$("6178'%1"9 'S'(+:0 '%1")*+/*$0E"!\\?IGMMM;"
"
. '04'*E">+0 0311' ",+*"5TT*'831$13+%"K5 5>6=LE"W%1'((' T17$(">+%1*3471 3+%-"^+T7-E"!\\\I
GMMM;"
"
>++*83%$1+*E"d7'-1"6:'$&'*"^+*70E"!\\?IGMMM;"
"

C. C

"
. '04'*E"R%3S'*-31D">+0 0311' '"d*$%13%/"U'%7*' "$%8")*+0+13+%E"!\\@I!\\H;"
"
5--+T3$1' "93*'T1+*E"9+T1+*$(")*+/*$0E"^$T7(1D"+," . $%$/' 0 '%1E"!\\aI!\\];"
"
. '04'*E"R%3S'*-31D"U$-&",+*T' "+%"6'f7$("Y$*$--0 '%1E"!\\@I!\\];"
"
. '04'*E"R%3S'*-31D"U*$S'("^7%8-">+0 0311' 'E"!\\aI!\\H;"
"
. '04'*E")'*,+*0$%T' "NS$(7$13+%">+0 0311' 'E"^$T7(1D"+," . $%$/' 0 '%1E"!\\@I