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CO RSES IA GHU AN SKIDMORE COLLEGE

"

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

CO RSES IA GHU O ILSIDE SKIDMORE COLLEGE

"

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

"

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DOCUORALS PER ISION

"

X783IB"=3\*8- '((" 5 % "W%-131713+%\$( "5 %\$(D-3- "+, ") + (3TDI . \$&3% / "3%"IB "" > \$%\$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' O 3+13T"6178D"+, "IB "" . \$&' 13% / "+, "UB3\*8"  
b +\*(8" U+7\*3- O "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% \$ O 3T- "KR%3S '\*-31D"  
+, ">\$( / \$\*DE" GMM !L"





"

Nf\$03%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&-."O&%E0"!IGG;"2+%8+%0"6\$/'"")74(3T\$13+%-;"GMMH;"

"

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

"

REFEREED JO RNAL P BLICATIONS

"

60+&'%"\$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%-B70\$%) \*\$-\$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%-B70\$%) \*\$-\$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%-B70\$%) \*\$-\$8"<" [ '\$`\$' . 3\*L;"B+ ; #' ) / . , #%&5 'OE"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%-B70\$%) \*\$-\$8L;"P+0&' .00) / . '#&00#'1.) \*+##% . ",EE"GMM]E"G0"H] "I" \ !;"

"

d(+4\$( "U\*\$%-313+%-0"UB'"NO '\* / 3% / "A'C" b +\*(8" \_\*8' \*%"\$8"31-"W0 : (3T\$13+%- ,+\*" =7-3%' --"  
\$%8" . \$%\$ / ' 0 '%1"KC31B"5%-B70\$%) \*\$-\$8L;"P+0&' .00) / . '#&00#'1.) \*+##% . ",EE"GMMHE"!p"  
\ !I!!J;"

"

W%"1B'"A\$0 '+' , "1B'" ) \*\$T13T\$(0"R%' \$\*1B3% / "1B'"Y' / ' 0+D"+, ) \*\$ / 0\$ETQq21\$ . 2+8l(/' ) 0 . 2(] 0 . 0 . 412589

"

UB 'N('T1\*+%3T"U\*\$%-,+\*O\$13+%"+,"IB" \_\*/\$%3`\$13+%\$( " . ' '13%/0"R-3%/"U'TB%+(+/DI3%I  
>+%1' f"1+"R%8 '\*-1\$%8" d\*+7:"67: :+\*1"6D-1' 0-"Kd 66-L;"KC31B"9\$% ">(\$: : '\*L;"9. 12 '5,5(E)  
>%+:.d.O"E"!\ \ \E"S+(;aE"

"

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

"

b B '% "IB" "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- "+,"IB" " b '-1\*\$D" . 3% ' "  
Nf:(+ -3+% "KC31B"U3O +IBD"YD% '-LE"05+" '#,)5\$)=#'#(. ; . '%)>%+:.d.OE"!\ \ \]E"S+(;JaE"HM!I  
HGJ;"

"

>\*31T\$("UB'+\*D"\$%8" . \$%\$/ ' O ' %1"N87T\$13+%0"N%/\$/3%/") +C' \*E"W8'+(+/D"\$%8") \*\$f3-"KC31B"  
)\$7(\$">\$: +%3L; ;05+" '#,)5\$)=#'#(. ; . '%)K: +I#%&5 'E"!\ \ \]E"S+(;G!E"

"

b +\*&3%/"C31B"IB" "q6O\$\*1c" . \$TB3% '0">+O : 71' \*3` \$13+% "\$%8"IB" "93-T+7\*- ' "+, "  
5%1B\*+: +O+\* : B3- O "3%" \_\*/\$%3`\$13+%-;">%+:.d.O)&' )! +,%+" .ON)F"(# '&G#%&5 '0)#' : )>5I&. %&. OE"  
!\ \ \@E"S+(; !E"G@JIGH@;"

"

UB "'W8'+(+/D"+, " ) \*+, ' --3+%\$(3- O "\$%8" b +\*&">+O : 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\$("5 T13+% "KC31B" . 3&" ">\$\$%\$7/BL;"F"(# '&G#%&5 ' )  
>I&. 'I.N"!\ \ \aE"S+(;@E"GH]IG] !;"

"

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

PUBLISHED PANEL DISCUSSIONS

9+T1+\*\$("N87T\$13+% "\$8"IB" "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:+I#%&5'-(!\ \HE"S+(:GM;"

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SPECIAL EDITORIAL ASSIGNMENTS

>+I'831+\*"KC31B" \$7(\$>\$: \*+%3LE"- : 'T3\$("3--7'"+">\*313T\$("UB'+\*D"\$8" . \$%/ ' O '%1"
N87T\$13+%E""05+ #,)5\$)=#'#(. ; . '%)K:+I#%&5'E"! \ \ ]E"S+(:G!;"
">+I'831+\*"KC31B" \$,%\$ "ND(+%LE"- : 'T3\$("3--7'"+"1B" "Y3-1+\*D"+, " b +\*&:( \$T" "NO : +C' \* O '%1E""
05+" '#,)5\$)H<<, (:)P. 2#-%5"#,)>I&. 'I.E"GM!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: 0E"GMMGE" S+(:@E" A+;" !;"

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CONFERENCE PROCEEDINGS

)\*\$T13T\$(D"9\$% / '\*+7-0"Nf:(+\*3%/"1B" "Y' / ' O +%D"+, "q) \*\$/ O \$13- 0c"3%"1B" "93-T+7\*- "'+, "
N%\$3\*+% O '%1\$(" . \$%/ ' O '%1"KC31B" . 3TB\$ ("N(O' -L;"7"51. . : &' (0)5\$)%2. )M#'( +#(. )&' )
P+0&' .00)#' : )F" (#' &G#%&5' 0">+%, '\* %T'E" \_B3+"61\$1" "R%3S' \*-31DE">+(7 047-E" \_B3+E" . \$D"
! \ \ \ ;"
"KR%LC3((3%/"1+" [ '-3-le">7%%3%/" 5T1+\*-E"W8'+(+/3T\$("97: '- "\$8"IB" "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'\$ . "' . 'I.E"2+%8+%E" . \$\*TB"! \ \ \ ;"
"b B\$1"3%"1B" " b +\*(8"9+' - "W%1' %\*\$13+%\$(" . '\$%e"5") \*'(3 03%\$\*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"U3O+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"W O : (3T\$13+% "- "+, "d\*+7:"67: : +\*1"
6D-1' 0- "+\*)+C' \*E"6D 04+(3- 0 "\$%8" ^\$T' I b +\*&"KC31B"9\$%3\$(">(\$: : '\*L;"7"51. . : &' (0)5\$)
%2. )H' '+#,)= . . %&' (0)5\$)J! J>"KW%1' %\*\$13+%\$(">+%, '\* %T' "+% "W%, +\* O \$13+% "6D-1' 0 -LE"
9' T' 04' \*!" \ \ JE" ^(+\*38\$;"



"

9\*7/"U'-13%/"3%"IB'" b +\*&:(ST'0"UB'"6D04+(3T' . \$%\$/' 0 '%1"+,"\$% \_\*/\$%3`\$13+%\$(">\*3-3-"  
KC31B" . 3TB\$'(">\$S\$%\$7/B"\$%8"X+B%" . 3TB\$'("\_&' -L;"7"51...:&'(0)5\$)%2.)K#0%."')  
HI#:. ; E)5\$)=#'#(. ; . '%E" . \$D"! \ \ GE"=\$130+\*';"

"

23, "\$%8"9 '\$IB"3%">\$\* ' '\*0"5"Nf: '\*3'%13\$("Nf'\*T3-'"23%&3%/">\$\* ' '\*")(\$%3%/"1+"6178 '%1"  
Z\$(7' -"\$%8"A+13+%-"+,"IB"qd++8"23, 'c;"7"51...:&'(0)5\$)%2.)K#0%."')HI#:. ; E)5\$)  
=#'#(. ; . '%E" . \$D"! \ \ GE"=\$130+\*';"

"

UB'">+%T':1"+,"5(3'%\$13+% "\$%8" b +\*&:(ST'"NO :+C '\*O '%1"KC31B"5%-B70%)\*)\$-\$8L;"  
7"51...:&'(0)5\$)%2.)K#0%."')HI#:. ; E)5\$)=#'#(. ; . '%E" . \$D"! \ \ !E"Y\$\*1,+\*8;"

"

qW0\$/%3/"c"IB'" \_\*/\$%3`\$13+% "3%"IB'">(\$-+\*++00")+\*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%."')HI#:. ; 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"+,"IB'"231 '\*17\*"C31B"67// '-13+% -"+\*^717\*" [' - '\$\*TB;"  
7"51...:&'(0)5\$)%2.)D. 1&0&5')>1&. '1.0)H' '+#), =. %&'(0E"A+S' 04 '\*! \ ? \ 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%."')HI#:. ; E)5\$)=#'#(. ; . '%E" . \$D"! \ ? \ ;"

"

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**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"IB'"5%%7\$(. ' '13%/"-+" B "NS-1 '\*%"6+T3+(+/3T\$("6+T3'ID" . ' '13%/"-E"  
)B3(\$8'(:B3E"'^4\*7\$\*D"GMGM;"

"

UB'"U+\*" g 73(10"R%8 '\*-1\$%83%/">+%1'0 :+ )\$D "8 '%131D">+%,(3T1-"UB\*+7/B"IB'"Z'B3T('"+,"  
Nf:(+-3S'" \_\*/\$%3`\$13+%\$("N%T+7%1 '\*-;")\$: '\*: '\*: '\*- '%1'8"\$1"IB'"=3\$%%7\$( g [ . "Kg 7\$(31\$13S'"  
[ '- '\$\*TB" . '1B+8-"3%" \_\*/\$%3`\$13+% -L">+%, '\* '%1'E"5(47m7 '\*m7'E"A'C" . ' f3T+E" . \$\*TB"  
GM! ?;"

"

5%30\$("Nf13%T13+%- "\$%8"NT(3: -'"+" ,IB'"6\$T\*'80"UB'" b +\*(8+" ,IB'"^7\*"U\*\$8'"3%"A'C"  
N%/"\$%8"\$%8"IB'"d\* '\$1"2&&' -" [ '/3+% "3%"IB'"!H<sup>IB</sup>"\$%8"! ]<sup>IB</sup>



"

W%-131713+%- "\$%8"Nf+13T3`\$13+%0" . \$%\$/3%/ "1+ " i ' ' : "1B " " \_1B ' \* "3%")(\$T ' ; ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1" IB ' " 5 % % 7 \$( " . ' ' 13% / - "+ , "1B " " 5 T \$ 8 ' O D "+ , . \$%\$/ ' O ' %1E " 9 ' %S ' \*E" 5 7 / 7 -1"GMMG;"

"

9 ' -3 / %3% / " 93 , , ' \* %T ' 0 " 93S ' \* -31D" . \$%\$/ ' O ' %1 "\$%8"1B " " 93 - T + 7 \* - ' "+ , ^ \$ - B3 + % " KC31B " 5 % - B70 \$ % ) \* \$ - \$ 8 L ; " ) \$ : ' \* : \* ' - ' %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 ( ' O O \$ - " 3% " 1B " " 6178D "+ , \_ \* / \$ % 3 ` \$ 13 + % \$( " > 7 ( 17 \* ' - ; " ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1"1B " " 5 % % 7 \$( " . ' ' 13% / - "+ , "1B " " 5 T \$ 8 ' O D "+ , . \$%\$/ ' O ' %1E" b \$ - B3% / 1 + % E " 9 ; > ; E " 5 7 / 7 - 1E " GMM ! ; " "

"

> \* + - - 3% / " > 7 ( 17 \* ' - 0 " 5 " ) + - 1 T + ( + % 3 \$ ( " 5 % \$( D - 3 - "+ , " \$ % " W % 1 ' \* I \_ \* / \$ % 3 ` \$ 13 + % \$( " N % T + 7 % 1 " \* " KC31B " 5 / % ' 1 \$ " . + 7 ( ' 11 ' - L ; " ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1"1B " " > \* 313T \$( " . \$%\$/ ' O ' %1 " 61783 ' - " > + % , ' \* % T ' E " . \$ % T B ' - 1 ' \* E " R ; i ; E " X7 ( D " GMM ! ; " "

"

> ( + - " N % T + 7 % 1 ' \* - " C31B " 5 T \$ 8 ' O 3 T " 93 - T \* ' 831 \$ 13 + % " KC31B " . \$ 1 - " 5 ( S ' -- + % L ; " ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1"1B " " > \* 313T \$( " . \$%\$/ ' O ' %1 " 61783 ' - " > + % , ' \* % T ' E " . \$ % T B ' - 1 ' \* E " R ; i ; E " X7 ( D " GMM ! ; " "

"

. \$%\$/3%/ " 2 ' / 313 O \$ T D " 3% " qW ( ( ' / 313 O \$ 1 ' c " \_ \* / \$ % 3 ` \$ 13 + % - ; " ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1"1B " " W % S31 ' 8 " > + % , ' \* % T ' " + % " W % - 131713 + % - E " > + % , ( 3 T 1 " \$ % 8 " > B \$ % / ' E " A + \* 1 B C ' - 1 ' \* % " R % 3S ' \* - 31 D E " N S \$ % - 1 + % E " W 2 E " 9 ' T ' 0 4 ' \* " GMMM ; " " " "

"

) \* + O 3 - 3% / " [ \$ 3 % 4 + C - 0 " 5 % " W % - 131713 + % \$( " 5 % \$( D - 3 - "+ , " 93S ' \* - 31D" . \$%\$/ ' O ' %1 " 3% " A + \* 1B " 5 O ' \* 3 T \$ ; " ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1"1B " " 5 % % 7 \$( " . ' ' 13% / - "+ , "1B " " 5 T \$ 8 ' O D "+ , . \$%\$/ ' O ' %1E" U + \* + % 1 + E " 5 7 / 7 - 1 " GMMM ; " "

"

6 \$ S 3% / " 1B " " N \$ \* 1B " W % T ; 0 " U B " " 2 \$ % / 7 \$ / " \$ % 8 " 2 + / 3 T "+ , . \$ \* & ' 1 " 93 - T + 7 \* - ' - " 3% " N % S 3 \* + % O ' % 1 \$( " \_ \* / \$ % 3 ` \$ 13 + % - " KC31B " X ' , " N S ' \* ' 1 L ; " ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1"1B " " 5 % % 7 \$( " . ' ' 13% / - "+ , "1B " " 5 T \$ 8 ' O D "+ , . \$%\$/ ' O ' %1E" U + \* + % 1 + E " 5 7 / 7 - 1 " GMMM ; " "

"

> \$ - 13% / " 1B " " A \$ 13S ' " 674h ' T10 " N1B % + / \* \$ : B3T " ) \* \$ T 13 T " \$ % 8 " 1B " " K [ ' L ) \* + 87 T 13 + % "+ , " 93 , , ' \* % T ' " KC31B " 5 % - B70 \$ % ) \* \$ - \$ 8 L ; " ) \$ : ' \* : \* ' - ' %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 " " [ ' : \* + 87 T 13 + % "+ , " 93 , , ' \* % T ' ; " ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1"1B " " > \* + - - + \$ 8 - " 3% " > 7 ( 17 \* \$ ( " 61783 ' - " W % 1 ' \* % \$ 13 + % \$( " > + % , ' \* % T ' E " = 3 \* O 3% / B \$ O E " R % 31 ' 8 " i 3% / 8 + O E " X7 % " " GMMM ; " "

"

N1B % + / \* \$ : B3T " g 7 ' - 13 + % - " \$ % 8 " 1B " " g 7 ' - 13 + % "+ , " N1B % + / \* \$ : B D 0 " X + 7 \* % ' D3% / " , \* + O " . ' 1B + 8 " 1 + " U \* \$ 8313 + % " 3% " \$ ) ( 7 \* \$ ( 3 - 13 T " b + \* ( 8 " KC31B " 5 % - B70 \$ % ) \* \$ - \$ 8 L ; " ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1"1B " " 5 % % 7 \$( " . ' ' 13% / - "+ , "1B " " 5 T \$ 8 ' O D "+ , . \$%\$/ ' O ' %1E" > B3T \$ / + E " ! \ \ \ ; " "

"

U B " " [ ' , ( ' T13 + % "+ , " W % - 131713 + % \$( " . D1B - " 3% " 1B " " 61 \* 7 T 17 \* 3% / "+ , " \$ " A \$ 13 + % \$( " . ' 83 T \$( " [ ' - ' \$ \* T B " W % 313 \$ 13S ' " KC31B " X7831B " = 3 \* 8 - ' ( ( " < " b 3 ( , \* ' 8 # ' \* 4 ' L ; " ) \$ : ' \* : \* ' - ' %1 ' 8 "\$1"1B " " 5 % % 7 \$( " . ' ' 13% / - "+ , "1B " " 5 T \$ 8 ' O D "+ , . \$%\$/ ' O ' %1E" > B3T \$ / + E " ! \ \ \ ; " "

"

"

UB "A\$13S' -"\$\*' " [ '-1(' --0"U\$&3% / "234 '\*13' -"C31B">\*313T\$("N



"

>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' OD"+, " . \$%\$/' 0 '%1"5%%7\$( " . ' '13% /-E"  
. +%1\*\$\$(E" 57/7-1"GMM!M;"

"

)\$%'(3-IE"jW0 O3/\*\$13+% "3%"IB''R;6;0"W0 : (3T\$13+%- ,+\*" \_7\*"^717\*'k;"NO :3\*' "61\$1'">+(( / 'E"  
6\$\*\$1+/\$6: \*3% /-E"A'CF+\*& ;"9 'T' 04 '\*GM!M;"

)\$%'(3-IE")\*+, '--3+%\$( "9 'S' (+: 0 '%1" b +\*&-B+:E"W%1' \*\*+/\$13%/">\*313T\$( " . \$%\$/' 0 '%1"  
61783' -;6: +%--+\* '8"4D"IB" \_\*/\$%3`\$13+%\$( "9 'S' (+: 0 '%1"<">\*313T\$( " . \$%\$/' 0 '%1"61783' -"  
93S3-3+% -E"5T\$8' OD"+, " . \$%\$/' 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>+0 0+% "d\*+7%80"" g7\$%131\$13S'"\$%8" g7\$(31\$13S'"5 : : \*+TB' -"1+6178D3%/" b +\*&:( \$T'  
93S' \*-31D;c"" b +\*&-B+: "-: +%--+\* '8"4D"IB">\*313T\$( " . \$%\$/' 0 '%1"61783' -"\$%8"d '%8' \*"<"  
93S' \*-31D"3%" \_\*/\$%3`\$13+%- "93S3-3+% -"+, "IB'"5T\$8' OD"+, " . \$%\$/' 0 '%1E")B3(\$8' (: B3\$E"  
57/7-1"GMM];"

"

)\$%'(3-IE")\*+, '--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(3-0"3%"93\$(+/7'; "5T\$8' OD"+, " . \$%\$/' 0 '%1"5%%7\$( "  
. ' '13% /-E"Y+%(7(7E"Y\$C\$33E" 57/7-1"GMM@;"

"

W%S31'8")\*'- '%1' \*E" d9 \_"Kd '%8' \*"<"93S' \*-31D"3%" \_\*/\$%3`\$13+%-L"9+T1+\*\$(">+%-+\*1370 ;"  
5%%7\$( " . ' '13% /-+,"IB'"5T\$8' OD"+, " . \$%\$/' 0 '%1E"Y+%(7(7E"Y\$C\$33E" 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' OD"+, " . \$%\$/' 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" i 5U5X5",+\*"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"IB" [ '- '\$\*TB"  
. 'IB+8-"\$%8">\*313T\$( " . \$%\$/' 0 '%1"61783' -"93S3-3+% -"+, "IB'"5T\$8' OD"+, " . \$%\$/' 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"IB">\*313T\$( " . \$%\$/' 0 '%1"61783' -E" \_\*/\$%3`\$13+%"  
UB'+\*D"\$%8" [ '- '\$\*TB" . 'IB+8-"93S3-3+% -"\$1"IB'"5%%7\$( " . ' '13% /-+,"IB'"5T\$8' OD"+,  
. \$%\$/' 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%/"IB'">\*313T\$( "  
U7\*%0" . \$1'\*\$3(3-0E"9 'T+%-1\*7T13+%" <"W%-131713+%\$( "NIB%+/\*\$: BDC;" [ '- '\$\*TB" . 'IB+8-"









"

"

^+((+C3%/"1B'"93-T+7\*-'"+"1B'"Z'3("3%"1B'"6T\$%83%\$S3\$%"N0:(+D0 '%1"6'T1+\*;"6:\*3%/"  
[ '- '\$\*TB"6' 03%\$\*2'T17\*'E"9':\$\*10 '%1"+,">+0 07%3T\$13+%E"R%3S' \*-31D"+,">+(+\*\$8+E"  
=+7(8' \*E"5 : \*3("GM!G"

"

>\*3: : ('8" d3\$%10" 5 0 ' \*3T\$%"9 'T(3% '"3%"\$%"5 / '"+">+\*:"\*\$1'"U\$&' +S\*;"R%3S' \*-31D"+,"  
. \$8\*\$-E"W%83\$E"X\$%7\$\*D"GM!G;"

"

. 7(13I631'8"N1B%+/\*\$:BD"\$%8"93-T+7\*-'"5%\$(D-3-;"W%S31'8"6:'\$&'\*"S1")\* 'I>+%, '\* '%T'"  
b +\*&-B+:E"j . +S3%/" . '1B+8+(+/Dk"A\$13+%\$( ">+0 07%3T\$13+%-"5 --+T3\$13+% "5 %7\$( "  
. ' '13%/E" \_\*(\$8+E" ^2E"A+S' 04' \*GM!G;"

"

b +\*&:(S'T'">7(17\*' "\$%8"1B'"W-(\$03T"Y"\$8-T\$\*,"3%"6C'83-B"\$%8"9\$%3-B" \_\*/\$%3` \$13+% -;"  
9'-\$71'(-" ^\$T7(1D"+," . \$%\$/ ' 0 '%1E" . Td3(("R%3S' \*-31DE" . +%1\*\$E"6' :1' 04' \*GM!!;"

UB'"93-T+7\*-'"+"1B'"W-(\$03T"Z'3("3%"6T\$%83%\$S3\$;"^+7\*1B'5%7\$("2'T17\*"S1"> [N9"  
K>'%1'\*,+\*" [ '- '\$\*TB"+%Nm7\$(31D"\$%8"93S' \*-31DL" g7' '%' . \$\*DE"R%3S' \*-31D"+,"2+%8+%E"  
A+S' 04' \*GM!M;"

"

UB'"Z'3("3%"1B'" b +\*&:(S'T';"2'T17\*'8'(3S' \*'8\$-:"\$\*1"+,"1B'"5%7\$("d '%8' \* <"W8'%131D"\$1"  
1B'" b +\*&:(S'T'"6' \*3' -E" [ \$84+7%8"R%3S' \*-31D"+,"A3h0 'h' %E"UB'"A' 1B' \*(\$8-E" \_T1+4' \*"  
GMM?;"

"

R%S'3(3%/"N7\*+: 'c-">3S3(3` '8" ^\$T'0" d '%8' \* [ '(\$13+% -E"A' C"W003/\*\$%1-"\$%8"1B'"  
93-T+7\*-'"+"1B'"Z'3("3%"1B'"6T\$%83%\$S3\$%" b +\*&:(S'T';"Y\*\$S\$\*8"=7-3% '--"6TB++(c-"  
93-13%/73-B'8" [ '- '\$\*TB"2'T17\*'E"Y\*\$S\$\*8"R%3S' \*-31DE" \_T1+4' \*GM];"

"

UB'" b \*313%/"+"1B'" b \$(("3-"3%"\$ "^+\* '3/%"2\$%/7\$/';"W%S31'8")(' %\$\*D"588\*' --"\$1"1B'"5%7\$("  
. ' '13% / -"+,"1B'"51(\$%13T"6TB++(-"+,"=7-3% '---E" b +(,S3(("E"A+S\$)6T+13\$E">\$%\$8\$;"  
6' :1' 04' \*GM];"

"

R%1\$%/(3%/" . '1B+8+(+/3T\$("W%1' \*T+% % 'T13+% -0"2+T\$("\$%8" d(+4\$("93(' 00\$-"KC31B"

"

[ '-1+\*3%/ " g 7\$(31D"1+" g 7\$(31\$13S " [ '- '\$\*TB;"W%S31'8"2'T17\*' "\$1"IB" ">+: '%B\$/ '%="7-3%' --" 6TB++(E">+: '%B\$/ '%E"9'T' 04'\*"GMMa;"

"

W%-7\*/ '%1"W 0\$ /3%3% /-0")+-1T+(+3\$(31D"\$%8" \_\*/%\$3`\$13+%\$( " 5%\$(D-3-"KC31B" 5%-B70\$%) \*\$-\$8L;"6C'83-B"6TB++(+,"NT+%+03T-"<="7-3%' --" 5803%3-1\*\$13+% "KY5A i NAL E" Y'(-3%&3E" . \$D"GMMa;"

"

9' -13%\$13+% "R%&+%C"0" A\$S3/\$13%/"\$ [ +71'"U+C\$\*8" . \$%\$/3%/"93S' \*-31D;"W%S31'8") ('%\$\*D" 2'T17\*' "\$1"IB" "9%\$3-B"W%-13171'" +,"Y70\$%) [ 3/B1-" 5%%7\$( "5C\$\*8">' \*' 0+%DE">+: '%B\$/ '%E" . \$\*TB"GMMa;"

"

. \$%\$/3%/"93S' \*-31D"\$%8"IB" "2+/3T"+,"^\$-B3+%;"W%S31'8"d7'-1"2'T17\*' "\$1" \_W6N"K\_ %1\$\*3+" W%-13171'" +,"61783' -"3%"N87T\$13+%LE"R%3S' \*-31D"+,"U+\*+%1+E" ^'4\*7\$\*D"GMM!;"

"

= 'B3%8"IB" " =\*3/B1" ^\$T'0"N%1' \*3%/"IB" "6B\$8+C" b +\*(8"+," b +\*&:( \$T'"93S' \*-31D;)" ('%\$\*D" \$88\*' --"\$1"IB" "!!"IB" A+\*83T" . 3/\*\$13+% ">+%, '\*%T'E" d+IB" %47\*/E"6C'8' %E" \_T1+4' \*!" \ \ \ ;"

"

93(' 00\$- "+," b +\*&:( \$T'"93S' \*-31D;"W%S31'8"('T17\*'E">+:%. \$5"C+ ': .%)Z#",&' (0,&-)512" >#; #2#,,.)K>' %1' \*", +\*="7-3%' --"<")+ (3TD"61783' -LE"61+T&B+(OE" \_T1+4' \*!" \ \ \ ;"

"

UB "U\*\$%-( \$13+% "+,"W%-131713+%\$( " . D1B"3%1+"61\*7T17\*';"W%S31'8"('T17\*'E"6>\_ [ N"K61+T&B+(0" >' %1' \*", +\*\_ /\$3` \$13+% " [ '- '\$\*TBLE"61+T&B+(OE" ^'4\*7\$\*D"!\ \ \ ;"

"

6: '\$&3%/"\$4+71" [ '-3-1\$T'0" [ +713% "' \_ : : + -313+% "7%8' \*">+%8313+% - "+,"^( 'f34(" >\$: 31\$(3- 0;" W%S31'8"('T17\*'E" ^\$T7(1'8' -"-T3' %T' -"8'"(c\$803%3-1\*\$13+%E"2\$\$\$( "R%3S' \*-31DE" g7'4'T">31DE" X\$%7\$\*D"!\ \ \ ;"

"

93-T+7\*-' "5%\$(D-3-"\$%8" b +\*&:( \$T'" [ '-3-1\$T';"W%S31'8"2'T17\*'E"9' : \$\*10' %1"+," W%1' \*%\$13+%\$( =7-3%' --"\$%8"IB" "N%S3'+% 0' %1E" [ 71/ '\*-"R%3S' \*-31DE" A+S' 04' \*!" \ \ \ ?;"

"

61\* '1TB3%/"IB" "W\*+% ">\$/'0"NO : (+D' "' [ '-3-1\$T'"1+"U' TB+(+/3T\$( ">B\$% / ' ;"W%S31'8" 2'T17\*'E"9' : \$\*10' %1"+," 5TT+7%13%/"\$%8" . W6E" ^\$T7(1D"+," =7-3%' --"E"R%3S' \*-31D"+," 5(4' \*1\$E" N80+%1+%E" A+S' 04' \*!" \ \ \ ;"

"

[ '-3-1\$T' "\$1"IB" " b +\*&:( \$T';"d7'-1"2'T17\*'E"6TB++(+,"NT+%+03T-"\$%8">+00' \*T3\$( "2\$CE" d+1'4+\*/ "R%3S' \*-31DE"6C'8' %E" 5 : \*3("!\ \ \ ;"

"

R%8' \*-1\$%83%/" [ +713% "' [ '-3-1\$T' "\$1"IB" " b +\*&:( \$T';"23%&+ : 3%/"R%3S' \*-31DE"23%&+ : 3% /E" 6C'8' %E" 5 : \*3("!\ \ \ ;"

"

>B\$%/3%/"Y [ . \_ \*3' %1\$13+% -"3%"\$")+-1I" ^+\*83-1" b +\*(8;"Y'(-3%&3">B\$04' \*"+," >+00' \*T'E" Y'(-3%&3E" ^3%(\$%8E" ^'4\*7\$\*D"!\ \ \ ;"

"

6\$, 'ID"2' --+%" ^\*+0"W%87-1\*3\$( "93-\$-1' \*-0" [ 7(" "Z3+(\$13+% "3%">+0 : ('f"\$%8"23% '\$\* \_\*/%\$3` \$13+% -;"93-13%/73-B'8"2'T17\*'E"5(4' \*1\$E" \_TT7: \$13+%\$( "Y'\$(1B"\$%8"6\$, 'ID"6' \*S3T' -" >+%, '\*%T'E">\$( /\$\*DE">\$%8\$E" \_T1+4' \*!" \ \ \ H;"

"

"

N('T1+%3T" . ' 13% / -"\$%8" \_ \* / %3` \$13+%\$ ("9D%\$0 3T-; "9' : \$\*10 ' %1"+, ) -DTB+(+/DE"  
R%3S '\*-31D"+, " [ 3TB0 +%8E"Z3\*/3%3SE"X\$7\$\*D"! \ \H;"

"

. \$%\$/3%/"IB'"=\*\$3%D" . +% -1 '\*0">+ 0 : 71' \* -"\$%8"U'TB%+(+/3T\$("5 %1B\*+: + 0 +\* : B3- 0 "3%"  
\_ \* / %3` \$13+%-;"^\$T7(1D"+, "5 8 0 3%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;"

"

" " QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ"

**ACADEMIC HONORS AND A ARDS**

"

N8C3%" . +- ('D"2 'T17\*' -B3 : E"GM! ] ;"UB'" . +- ('D"2 'T17\*' -B3 : "3- "6&38 0 +\*" ">+(( / 'c-"  
B3/B' -1"\$T\$8' 0 3T"B+\*+\* / 3S '%"\$%7\$((D"1+"\$, \$T7(1D"3%"\* 'T+ / %313+%" , "IB' 3\*" +71-1\$%83% /"  
-TB+(\$\*(D"\$TB3' S' 0 ' %1-;"

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

"

NO '\*\$(8" . \$%\$/ ' 0 ' %1" [ 'S3' C-" 5 C\$\*8",+\* \_ 71-1\$%83% /"NO : 3\*3T\$(") \$ : '\*E"GMMa;"

"

23-1'8"3%" 4 25W0) 4 25)&' )%2.)=#' #(. ; . '%">I& . ' 1. 0"KGMMML;"2+%8+%0"N8C\$\*8"N(/\$\*;"

"

W%1 '\*%\$13+%\$(" b +\*&3% /" . ' 0 4' \*E"27%8" [ '- '\$\*TB"W%-13171 'E"27%8E"6C' 8' %E"! \ \;"

"

"

Z;2;"NIB3\*\$h" 5 C\$\*8",+\*)" \*+,3T3 '%TD"3%"N%/(3-BE"R%3S '\*-31D"+," . \$8\*\$-E"! \ ]J;"

"

" " QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ

"

**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",\*+O"1B'"=\$%&"+,"  
>+0 0 '\*T'+,"6C'8'%;"

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

"

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

"

>+I>+%S'%+\*E" \_ : "%U\*\$T&"6' --3+%E"!H<sup>1B</sup> 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\$) = #' # ( . ; . '%)

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H1# : . ; E)5\$) = #' # ( . ; . '%)05+ "' #, )

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H1# : . ; E)5\$) = #' # ( . ; . '%) / . - &. Q)

)

= J > ) \* + # % . " , E)

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B + ; #' ) / . , # % & 5 ' 0)

)

F"('# '&G#%&5 ')>1&. ' 1. )

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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 " 9 3 S 3 - 3 + % E " 5 T \$ 8 ' 0 D " + , " . \$ % \$ / ' 0 ' % 1 "

"

d ' % 8 " \* " \$ % 8 " 9 3 S ' \* - 3 1 D " 3 % " \_ \* / \$ % 3 ` \$ 13 + % - " 9 3 S 3 - 3 + % E " 5 T \$ 8 ' 0 D " + , " . \$ % \$ / ' 0 ' % 1 "

"

[ ' - '\$ \* TB " . ' 1 B + 8 - " 9 3 S 3 - 3 + % E " 5 T \$ 8 ' 0 D " + , " . \$ % \$ / ' 0 ' % 1 "

"

N \$ - 1 ' \* % " 5 T \$ 8 ' 0 D " + , " . \$ % \$ / ' 0 ' % 1 " 5 % % 7 \$ ( " > + % , ' \* ' % T ' "

"

**C. R            G**

6 + T 3 \$ ( " 6 T 3 ' % T ' - " \$ % 8 " Y 7 0 \$ % 3 1 3 ' - " [ ' - '\$ \* TB " > + 7 % T 3 ( " K 6 6 Y [ > L " + , " > \$ % \$ 8 \$ "

"

A \$ 13 + % \$ ( " 6 T 3 ' % T ' " ^ + 7 % 8 \$ 13 + % " K A 6 ^ L E " R ; 6 ; 5 ; "

"

**D. B        P**

6 \$ / " " ) 7 4 ( 3 T \$ 13 + % - "

"

\_ f , + \* 8 " R % 3 S ' \* - 3 1 D " ) \* ' - - "

"

"

[ +7l('8/ '" )74(3T\$13+% -"

"

NO '\*\$(8") 74(3-B '\* -"

"

N(- 'S3 '\* "6T3 '%T' ") 74(3-B '\* -"

"

6l\$%, +\*8"R%3S '\* -3lD" ) \*' --"

"

. ' 04 '\*E"U\$-&"^+\*T'"1+"T+% -13171'"\$%" 'C" 0 3%+\*"3%"^3(O "\$%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(ID")\*+,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")\*+/\*\$OE"!\\?IGMMM;"

"

. '04'\*E">+0 0311' ',+\*5TT\*'831\$13+%K5 5>6=LE"W%1'(('T17\$(">+%1\*34713+%-"^+T7-E"!\\@I  
GMMM;"

"

>+\*83%\$1+\*E" d7'-1"6: '\$&'\*"^+\*7OE"!\\?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+\*\$(")\*+/\*\$OE"^\$T7(ID"+," . \$\$\$/ '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(ID"+," . \$\$\$/ '0'%1E"!\\@I