CURRICULUM VITAE

! "#$%&' ! ($"#)$*)'+' , $&" ()%&'
- . "' / 01"#"'2"33'4"#)"&'5%&'6"1"#"&7)$8"'2$%3%19'
: 7&$#"'2$%3%1$(73' ; 7<%&7)%&9'= : 2 ;>'
?' : 2 ; ' !)@'
A %%B*'C%3"D' : E'FGH I J'
'
'

K . %#"L'=HFM>'GMN0? I FN'
P7QL'=HFM>'GMN0?NFF'
/ R7$3L'SR%&17# T R<3@"B0'
U55$("L'6%V"' I WW'
; 7<L'6%V"' I FGD' I F?0 I WF'

EDUCATION AND TRAINING:

Ya e U e : , "X7&)R"#)'%5'4"33'2$%3%19'' ' ' '''''''' ' Y"V'C78"#D'4 -'

- . "' ^ #$8" &*$)9'%5' - "Q7*' 6 "1"#)*d'U0)*)7#B$#1' - "7(. $#1'EV7&B'=GFWG>'
! %($")9'5%&'Y"0&%*($"#("'\7#"))' - &0<7)(. '47&""&', "8"3%XR"#)'EV7&B'=GFWW>'
4%33"1"'%5'Y7)0&73' ! ($"#("*' - "7(. $#1' / Q("33"#("'EV7&B]' ^ #$8@'%5' - e'7)'E0*)$#'=GFWW>'
A$#)"&'4%#5"&"#("'%#'2&7$#'6"*"7&(. ' - &78"3'P"33%V* . $X'=GFWF>'
P7(03)9'6"*"7&(. 'EV7&B]'2%VB%$#'=GFFZ0GFF?>'

TEACHING EXPERIENCE:

Ma B a Lab a :

T U T a a A :

B C :

Ya U :

MENTORING EXPERIENCE:

P a T a : ***C P :***

E<&7.7R'6%*7*0E&"33 7#%D'K.@,@]' : 2;'=GFWG0GFWJ>'' ' K%*)B%(D'^YE : 'h' : "Q$(%'4$)9'
Y7$37'E3$''87D'K.@,@]'^-0E0*)$#'=GFFM0GFFN>''' ' ' 4%&"' : 7#71"&D'Y7)3@'^#$8'!$#17X%&"''
'

G a a S R :R PC RM L I S I)G:R R :

;%0$*'\@'P%Q'4"#)"&'5%&'_$*$%#'6"*)%&7)$%#'4%#5"&"#("]'A7*.$#1)%#D',4'=\0390'GFW?>'
!%($")9'5%&',"8"3%XR"#)73'2$%3%19L''6"1"#"&7)$%#'!9RX%*$0R]'2%*)%#D':E'=E01@'GFWZ>'
f#)"&#7)$%#73'!9RX%*$0R'%#').""Y"0&%<$%3%19'%5';%(%R%)$%#]'A7*.$#1)%#D',4'=\0#"'GFWZ>'
-."'?th'Ei07)$('E#$R73':%B"3*'%5'C0R7#',$*"7*"*'4%#5"&"#("]'E0*)$#D'-e'=,"(@'GFWI>'
b783$'P&%#)$"&*'%5'!($"#("'!9RX%*$0R]'Y7)$%#73'E(7B"R9'%5'!($"#("*]'f&8$#"D'4E'=Y%8@'GFWI>'

PUBLIC OUTREACH AND K-12 EDUCATION:

I L :

;%17#'!($"#("'\%O&#73$*R'4%0&*"'=\0#"'GFGJ>'
^#$8"&*$)9'%5'4.$(71%'[&7.7R'!(.%%3'=!"X)@'GFGG>'

2&7B9'/2D':(I0$337#':D':"B"$&%*'E-D'20<7((%';D'!%0*7'6D';75"&'/:D'**M** **a** **JR**'=GFGJ>@'C*(?F'
&"*(0"*')."'*9#7X)$('8"*$(3"')&755$(a$#1'B"5"()*'(70*"B'<9'q0*9#0(3"$#'B$R"&*@'*P*
B @'WF@W?NWGcR$(&%X0<@<$%3%19@FFF?J?@'K:f,L'JZNMJJW@'

K7))7#797a'6D'^#B"&V%%B'6D'4&%V3"9':6D'4&%**R7#',bD'**M** **a** **JR**D'`7(%0<$7#'-E'=GFGG>',"3")$%#'$#'
(.&%R%*%R"'Z'*X7##$#1'73X.70*9#0(3"$#'7#B'R03)$R"&$#W'3%($'$#')."'67<G?7c<'B%0<3"'a#%(a%0)'
R%0*"@'*R*'WGLNMJ?'B%$L'WF@WFJMc*IWHNM0FGG0WJHH?0M@'

b7)k'C6D'E&("*"'EED'23%%R'UD'**M** **a** **JR**'=GFGG>'E()$87)$#1')&7#*(&$X)$%#'57()%&'J'=E-PJ>'$*'7'.$1.390
(%#*"&8"B'X&%0&"1"#"&7)$8"')&7#*(&$X)$%#'57()%&'$#').""8"&)"<&7)"'#"&8%0*'*9*)"R@'*F* *C*
D *B* .'WFLMGIFJZ@'B%$L'WF@JJMNc5("33@GFGG@MGIFJZ@!

P%0a"'b/D'A"1R7#':/D'A"<"&'!ED'2&7B9'/2D'6%Rj#0_"#B&"33'4D'**M** **a** **JR**'=GFGW>'!9#0(3"$#'
&"1037)"*'*9#7X)$('8"*$(3"'(30*)"&$#1'7#B'B%(a$#1'7)'7'8"&)"<&7)"'*9#7X*"@'*F* *C*
D *B* .''NL??IZHF@'B%$L'WF@JJMNc5("33@GFGW@??IZHF@'

P$"*'\D'["RR"33'2\D'P%1"&*%#'!:D'**M** **a** **JR**D'-9)"33'/D'4%3$#'!K'=GFGW>'!V$RR$#1'a$#"R7)$(*'7#B'
X"&5%&R7#("'%5'*X$#73')&7#*"()"B'37RX&"9*'V$).'B$55"&"#)'3"8"3*'%5'7Q%#'&"1"#"&7)$%#@'*J*
E *B* @'$"<@GIGZJN@'B%$L'WF@WGIGc$"<@GIGZJN@!

C7*X"3'[D'!"8"&$'b/D'P70($';\D'4%."#'YD'-9)"33'/,D'**M** **a** **JR**'=GFGW>'6"*$$"#("'%5'#"0&73'#")V%&a*'5%&'
3%(%R%)$%#@'*J* *P* @'B%$L'WF@WWWJc\KG?NGWI!

6%Rj#0_"#B&"33'4D':"B"$&%*'E-D'!7#B"&*%#'\2D'\$7#1'CD'27&)"3*'-D'**M** **a** **JR**'=GFGW>'/55"()*'%5'"Q("**'
<&7$#0B"&$8"B'.0R7#'0*9#0(3"$#'%#'*9#7X)$('8"*$(3"')&755$(a$#1@'*F* *N* .''
WHLZJNIWI'B%$L'WF@JJMNc5#$#*@GFGW@ZJNIWI@'

27#a*'!:;D':"B"$&%*'E-D'!%0*7'6D';75"&'/:D'**M** **a** **JR**'=GFGW>'4.7X"&%#"'X&%)"$#*'7*'7R"3$%&7)%&*'%5'
0*9#0(3"$#0$#B0("B'*9#7X)$('X7).%3%1$"*L'$#*$1.)*'$#)%'K7&a$#*%#D*'B$*"7*"@'*N* *R*
R .'WZLWWNM0WWNN@'

b7)k'C6D'P%0a"'b/D';%*0&B%'YErD'**M** **a** **JR**'=GFGF>'6"(%8"&9'%5'<0&&%V$#1'<".78$%&'75)"&'*X$#73'(%&B'
$#$0&9'$#')."'37&873'*"7'37RX&"9@'*B* *B* @',"("R<"&'GFGF@'B%$cWF@WFMZc?WWJZH@!
'' =r^#B"&1&7B07)"'(%#)&$<0)$%#>'

!%33';D'/$*"#'\YD'_7&17*'b\D':"B"$&%*'E-D'C7RR7&'b:D'**M** **a** **JR**=GFGF>' 0!9#0(3"$#0WWG'$RX7$&*'
9#7X)$('8"*$(3"'&"(9(3$#1'(%#*$)"#)'V$).'"'#.7#("B'R"R<&7#"'<$#B$#1'X&%X"&)$"*@'*F* *C*
D *B* @'ML IFH@'B%$L'WF@JJMNc5("33@GFGF@FFIFH@'

27#a*'!:;rD':"B"$&%*'E-rD':(I0$337#':D'A7#1';D'f<7&&7&7#0_$#$"1&7'E!D'20*(.',\D'!%0*7'6D';75"&'/:D'
M **a** **JR**@''=GFGF>'C*(?F'ER"3$%&7)"*').""_"*$(3"'6"(9(3$#1',"5"()*'470*"B'<9'/Q("**'q0
!9#0(3"$#'7)'!9#7X*"'*@'*N* ?=W>@'X$$L'/Y/^6U@FIIM0WN@GFGF@'B%$L'WF@WHGJc/Y/^6U@FIIM0
WN@GFGF@=r''i073'(%#)&$<0)%&*>'''

,0'43%*'b-D',7<$&$'\UD'4%*)"33%'\CD'4%3$#'!KD'**M** **a** **JR**D'P%1"&*%#'!:D'[" RR"33'2\'=GFWN>'-.&0*)'
1"#"&7)$%#'BO&$#1'*)"7B9'*VRR#1'7#B'7((3"&7)$%#'5&%R'&"*)@'*J* *E* *B*.
GGG=K)'GG>@'X$$L'S"<GWGIZI@'B%$L'WF@WGIGc$"<@GWGIZI@'

4.7#7B79'YD'4%0*$#':D':$3%*"8$('fD'A7)7#7<"'!D'**M** **a** **JR**'=GFWN>'-."'*9#7X)$('8"*$(3"'(9(3"'
&"8$*$)"BL''#"V'$#*$1.)*'$#)%')."'R%B"*'7#B'R"(.7#$*R*@'*J* *N* .'JNLMGFN0
MGWZ@'.))X*LccB%$@%&1cWF@WHGJc\Y/^6U!4f@WWHM0WN@GFWN@'

C7#*3$a'bD'E33"#'!6D'P%1"&*%#'!:D'C7&a"#&$B"&'-D'[07B7&&7R7'/D'**M a JR.** =GFWN>
2".78$%&73'7#B'50#()$%#73'&"(%8"&9'$#')."'*"7'37RX&"9'75)"&'*X$#73'(%&B'&"0)&7#*"()$%#@''*PL O .* WI=W>L"FGFIWNJ@'B%$L'WF@WJ?WcS%O&#73@X%#"@FGFIWNJ@'=P"7)O&"B'$#'*N :*'6"*"7&(.'
C$1.31.)*'P"<@'ZD'GFWN>'

'

6%R70*0!7#$O&S%',D';"B%0[7&(p7'6D'P"&#j#B"k0;sX"k'2D'C7#*3$a'bD'**M a JR**D'27&&"$&%0
f13"*$7*'ED'6%B$($%':4@'=GFWM>'[E2E'X&%R%)"*'*0&8$873'7#B'7Q%#73'&"1"#"&7)$%#'$#'
$B"#)$5$7<3"'B"*("#B$#1'#"0&%#*'75)"&'*X$#73'(%&B'$#$O&9'$#'37&873'37RX&"9*@''*C D*
D @''NLZJJ@''B%$L'WF@WFJMc*IWINOFWMOF?FI0N@''K:f,L''GNNHFHH?@'''

'

A"$3':0-D'C"$<"(a'!D'-tXX"&V$"#':D'-%R',$"(a'!D'60.V"B"3'-D'!73B$))'-D'6%B$($%':4D'**M a JR**D'Y78"'bED':t<$0*'AD'A"&#"&'C2@''=GFWM>'EQ%#73'"#*."7).R"#)'$#')."'#"&8%0*'*9*)"R'
%5'37RX&"9L''fRX3(7)%#*'5%&')."'"8%30)$%#'%5'R9"3$#7)$#1'13$7@'*J N* @''B%$L'

'

! R$) . ' \ \ D' b0&7a0' ! D'C%3)' 4D' ! 70a70 ! X"#13"&' - D' \$7#1'YD' 47RX<"33' : ! D' ` 7#B"33' : , D' : 7#%0*7a$' - D'
: "9"&'ED' 23%%R'U / D'**M a JR**

&"(9(3$#1@''J P 'HHWLG@''6"8$"V@'

'

M a JR,