6FKRRO 3XEOLF 6SHFLDO $FDGHPLF

᪽

/,577KH

VWXGHQW XVHUV DW P\ VFKRRO OLNH OLEUDU\ XVHUV HYHU\ZKHUH QHHG WR DFTXLUH D ZLGH YDULHW\ RI LQIRUPDWLRQ VNLOOV LI WKH\ DUH JRLQJ WR PHHW WKHLU FXUUHQW DQG DFDGHPLF GHPDQGV RU VROYH WKH PRUHJHQHUDO LQIRUPDWLRQ SUREOHPV WKH\ IDFH QRZ DQG LQ WKH IXWXUH $FTXLULQJ LQIRUPDWLRQ OLWHUDF\ LV D GLIILFXOW WDVN IRU LW LV D VHULHV RI VHSDUDWH EXW LQWHUORFNLQJ VWUDWHJLHV DQG VNLOOV 7KH HIIRUWV RI P\ VWXGHQWV WR OHDUQ WKHVH YLWDO VNLOOV PXVW EH PDWFKHG E\ DQ HIIRUW RQ P\ SDUW WR EHFRPH D ZRUWK\ LQIROODWLRQ PHQWRUWHDFKHU
6HHLQJ WKH QHHGV P\ VWXGHQWV KDYH DQG ZDQWLQJ WR KHOS WKHP JURZ WR EH HIIHFWLYH OLIHORQJ OHDUQHUV RULJLQDOO\ OHG PH WR MRLQ /,57 'XULQJ WKH ILUVW IHZ \HDUV RI P\ PHPEHUVKLS, VLPSO\ DWWHQGHG PHHWLQJV DQG UHDG WKH 1HZVOHWWHU ZLWK LQWHUHVW 7KHVH DFWLYLWLHV RSSRUWXQLWLHV WKDW DUH DYDLODEOH ZLWK /,57 7KH URXQG WDEOH V JURXQGLQJ SULQFLSOH LV WKDW PRUH HIIHFWLYH VROXWLRQV WR WKH SUREOHPV RI LQIRUPDWLRQ OLWHUDF\ FDQ EH GLVLPՐׂࡤ㠅ᛱ焀፦雱䤀ᐳ䐷≀հԠ

OLY숆⓱✀ᄩ㘧撀հҰҀ

-XQH   LVVXH YROXPH  QXPEHU  RIWKH /LEUDU\
,QVWUXFWLRQ 5RXQG 7DEOH 1HZV

,16,'(

'RUVFK -RVHSKLQH HW DO $ 0XOWLGLVFLSOLQDU\ $SSURDFK WR,QIRUPDWLRQ DQG &ULWLFDO $SSUDLVDO,QVWUXFWLRQ%XOOHo WLQ RIWKH0HGLFDO/LEUDU\$VVRFLDWLRQ  -DQXDU\   


,QWHUHVWLQJ LQ WKDW LW QRW RQO\ RIIHUV DQ RXWOLQH IRU FRXUVHLQWHJUDWHG %, EXW
LW GRHV LW ZLWKLQ WKH IUDPHZRUN RI D PHGLFDO SURJUDP D VSHFLDOL]HG
GLVFLSOLQH LQ ZKLFK %, VHHPV WR EH JHWWLQJ D ILUP KROG
(DGLH 7RP ,PPRGHVW 3URSRVDOV 8VHU,QVWUXFWLRQ IRU
6WXGHQWV 'RHV 1RW:RUN /LEUDU\ -RXUQDO  2FWREHU
   
$ SURYRFDWLYH DUWLFOH LQFOXGHG LQ WKH OLVW IRU LWV VXEMHFW FRYHUDJH ZKLFK DUJXHV WKDW FRQYHQWLRQDO UHIHUHQFH VHUYLFHV EHWWHU VHUYH VWXGHQWV WKDQ ELEOLRJUDSKLF LQVWUXFWLRQ

(GPRQGV /HVOLH 3DXOD 0RRU DQG.DWKOHHQ 0HKDIIH\ %DOFRP 7KH (IIHFWLYHQHVV RI DQ 2QOLQH &DWDORJ 6FKRRO /LEUDU\ -RXUQDO  2FWREHU   
'HVFULEHV D VWXG\ E\ WKH DXWKRUV RI FDUG DQG RQOLQH FDWDORJ XVH E\ IRXUWK VL[WK DQG HLJKWK JUDGHUV DW WKH 'RZQHUV *URYH 3XEOLF /LEUDU\,QFOXGHV WKH LPSHGLPHQWV VWXGHQWV HQFRXQWHU LQ XVLQJ HDFK W\SH 2I FDWDORJ DQG VXJJHVWLRQV IRU FKDQJHV LQ VRIWZDUH GHVLJQ DQG OLEUDU\ LQVWUXFWLRQ

/LVW RI 2IILFHUV
&RPPLWWHH &KDLUV B 3 

&RPPLWWHH 5HSRUWV B

S

&RPPLWWHH 9ROXQWHHU

)RUP S

0HHWLQJV 5HODWHG WR
/LEUDU\,QVWUXFWLRQ S

 

/,57 2)),&(56 $1' &200,77((&+$,56)25   

3UHVLGHQW

'LDQQH /DQJORLV
:RRGORW /DQH

0LGGOHWRZQ &7 


9LFH 3UHVLGHQWO3UHVLGHQW (OHFW

7LPRWK\ *ULPHV
 5DYHQZRRG

$QQ $UERU 0,


$UFKLYLVW

/\QQ ( 5DQGDOO
 5LGJH 5RDG +
&HGDU *URYH 1- 


&RPSXWHU $SSOLFDWLRQᙥ暆䙦阀⼀䐀億坢ᄀ圀䰇5LG瀀

$/$ 118/ &21)(5(1&( $7/$17$  
121/,57 0((7,1*6 5(/$7(' 72 /P5$5<,16758&7,21

7KLV LV D
UHODWLYHO\ QHZ IHDWXUH IURP WKH $/$/57 /LDLVRQ &RPPLWWHH 3UHYLRXVO\ WKLV FRPPLWWHH SULPDULO\ KDG LQKRXVH UHSRUWLQJ UHVSRQVLELOLWLHV +RZHYHUGXULQJ FRPPLWWHH GLVFXVVLRQ DW ODVW VXPPHU V FRQIHUHQFH LW ZDVDJUHHG WKDL VLQFH PRVW RIXVILQG LW GLIILFXOW WR DWWHQG PHHWLQJV VFKHGXOHG VLPXOWDQHRXVO\ DQG VLQFH PDQ\ DUH XQDEOH WR DWWHQG WKH FRQIHUHQFH WKH PHPEHUVKLS PLJKW ZLVK WR NQRZ ZKDW WUDQVSLUHG

ವ

DW DOOWKRVH RWKHU PHHWLQJV RQH FRXOG QRW DWWHQG 7KH PHHWLQJV KDYH EHHQ UHSRUWHG RQ E\ PHPEHUV RIWKLV FRPPLWWHH RU RWKHU /57 PHPEHUV DQG D FRQWDFW QDPH DQGSKRQH QXPEHU LV VXSSOLHGIRU WKRVH WKDL KDYH D EXUQLQJ GHVLUH WR NQRZ PDUH DERXW DSDUWLFXODU VHVVLRQ 3OHDVHIRUJLYH DQ\ RYHUVLJKWV RU LQDFFXUDFLHV WKDL PD\ EH GXH WR FLUFXPVWDQFHV DW WKH WLPH RIWKH VHVVLRQ

$$6/ $PHULFDQ $VVRFLDWLRQ RU
6FKRRO /LEUDULDQV 3UHFRQIHUHQFH

)URP /LEUDU\ 6NLOOV WR,QURUPDWLRQ
/LWHUDF\ 7KXUVGD\ DQG)ULGD\ -XQH
 7KLV ZDV WKH ILUVW LQ D VHULHV RI

SUHFRQIHUHQFHV SODQQHG E\ WKH

ݨ倁뀔ᡄἒVᔐ䙑ڒ甇偰㝶圿ሯ教䐨쉄ἒ谠瑋Ѱ

`

VSRQVRUHG E\ $&5/%,6 DQG,557 6SHDNHUV LQFOXGHG5XWK $3DJH8:KDUWRQ 6FKRRO 3$ .ZDVL 6DUNRGLH0HQVDK 1RUWKHDVWHUQ8QLY 0$ 3DXO:DVVHUPDQ 8QLY RI 0DU\ODQG DW &ROOHJH 3DUN DQG (GZDUG 3 0LOOHU 3D\VRQ 3XEOLF /LEUDU\ $=  3DJHOO SUHVHQWHG WKH 7KDL ([SHULo HQFH EDVLV RI SHUFHSWLRQV D GHILQLWLRQ RI
LQIRUPDWLRQ

5(32576)520 &200,77((6

&20387(5 $33/,&$7,216 &200,77((

ವ

-XOLH %RED\,QGLDQD 8QLYHUVLW\
7KH &RPPLWWHH FRQWLQXHG ZRUNLQJ RQ VHYHUDO RQJRLQJ SURMHFWV $ VXEFRPPLWWHH ZKLFK VXUYH\HG VFKRRO
SXEOLF DQG DFDGHPLF OLEUDULHV RQ LQVWUXFWLRQ UHODWHG WR WKHLU RQOLQH FDWDORJV FRPSOHWHG DQDO\]LQJ WKH UHVXOWV
DQG SUHVHQWHG WKHLU ILQGLQJV DW WKH /,57 $OO&RPPLWWHH PHHWLQJ LQ $WODQWD 7KH &RPPLWWHH UHYLHZHG DQG

င恥 䠤숈荇쀄쀅倀

F ؀UHYLVHG WKH FRPSXWHU DVVLVWHG LQVWUXFWLRQ F؀VXUYH\ FRPSOHWHG逰茧 VHYHUDO<═֐ҁ䀅င䀄圀怳⑘裱 耀

D#敤逇 င嫰挀丆΀ԁ

薀ᑓ⁆焆̲弒԰帔耀

7KH FRPPLWWHH GLVFXVVHG WKH ILQDO GHWDLOV FRQFHUQLQJ WKH

&RPPLWWHH UHSWV FRQLLQXWHG

25*$1,=$7,21 $1' %</$:6 &200,77((

7REH\O\QQ %LUFK &DOLIRUQLD 6FKRRO RI3URIHVVLRQDO 3V\FKRORJ\

ವ

7KH &RPPLWWHH GLVFXVVHG LQWHULP SURFHGXUHV WR EH IROORZHG E\ WKH RIILFHUV DQG FRPPLWWHH FKDLUV LQ VHQGLQJ PDWHULDOV WR WKH $UFKLYLVW 'UDIWLQJ RIWKH $UFKLYLVW SRVLWLRQ GHVFULSWLRQ LV ZDLWLQJ IXUWKHU LQIRUPDWLRQ IURP WKH $/$ $UFKLYLVW 7KH &RPPLWWHH DOVR GLVFXVVHG KRZ WKH /,57 RUJDQL]DWLRQDO PDQXDO FRXOG EH VWUHDPOLQHG LQGLFDWLQJ ZKDW PDWHULDOV QHHGHG WR EH LQFOXGHG LQ D JHQHULF KDQGERRN WKDW FRXOG EH GLVWULEXWHG WR DOO FRPPLWWHH PHPEHUV DQG ZKDW PDWHULDOV VKRXOG EH PDLQWDLQHG E\ FRPPLWWHH FKDLUV DQG RIILFHUV 352)(66,21$/ $66�㔀ŉ鑆ࠖ䆐伀ȓQHѠҰӀԀ䅠㆒悁楴、㤃⤀⠀㘀㘀Ⰰ㼀

 

/,%5$5<,16758&7,21 5281' 7$%/(&200,77((92/817((5)250

,I \RX DUH LQWHUHVWHG LQ VHUYLQJ RQ D /,57 &RPPLWWHH SOHDVH FRPSOHWH WKLV IRUP DQG PDLO LW WR WKH 9LFH3UHVLGHQW3UHVLGHQW (OHFW RI /,57 7LPRWK\ *ULPHV
 5DYHQZRRG

$QQ $UERU 0,

6
$
1

$
1
7
R
1
,
R

/LEUDU\,QVWUXFWLRQ 5RXQG 7DEOH ,QYLWHV <RX WR JR RXW IRU D %,7(ZLWK /,57
6DQ $QWRQLR 7H[DV


7KLV LV \RXU FKDQFH WR VSHDN LQIRUPDOO\ ZLWK RWKHU OLEUDULDQV LQWHUHVWHG LQ OLEUDU\ LQVWUXFWLRQ /O57 LV RUJDQL]LQJ VPDOO JURXSV IRU OXQFK DQG GLQQHU DW PRGHVWO\

᪽?

SULFHG UHVWDXUDQWV GXULQJ WKH $/$ 0LGo ZLQWHU PHHWLQJ LQ 6DQ $QWRQLR VR WKDW ZH FDQ JHW

� �PD �E�U

&$1','$7($ /,57

7KH /,57 (OHFWLRQV1RPLQDWLRQ &RPPLU숉榌 ㈑ 舀☀勂戁̡ɠॆ ጡመg✀☀刀㆘칑DWਠဲ䤀䌡቗᐀☀勂

25'(5)250
/,57 7y6+,576 $1' 727(%$*6

WK $QQLYHUVDU\

/,57

7VKLUWV DUH SULQWHG ZLWK WKH /,57

ವ

WK $QQLYHUVDU\

$PHULFDQ /LEUDU\ $VVRFLDWLRQ

/,57 1HZV6HSWHPEHU  

7R FHOHEUDWH LWV WK DQQLYHUVDU\ WKH $PHULFDQ /LEUDU\ $VVRFLDWLRQ V /LEUDU\,QVWUXFWLRQ 5RXQG 7DEOH /,5I ZLOO SXEOLVK D YROXPH RQ WKH WKHPH

,QIRUPDWLRQ IRU D 1HZ $JH 5HGHILQLQJ WKH /LEUDULDQ

,Q DGGLWLRQ WR IRXU LQYLWHG SDSHUV IRXU HVVD\V ZLOO EH FKRVHQ IRU WKH YROXPH IURP DPRQJ WKRVH VXEPLWWHG WR D

᪽

/,57

:ULWLQJ &RPSHWIWIRQ
)LUVW WKURXJK IRXUWK SODFH SUL]HV ZLOO EH DZDUGHG
DW WKH $/$ &RQIHUHQFH LQ 6DQ)UDQFLVFR LQ  

7KH YROXPH VKRXOG EH SXEOLVKHG E\)DOO  



7KH,QIRUPDLLRWL $JH KDV VHHQ UDSLG JURZWK ERWK LQ WKH YROZQH RI GDWD DQG LQIRUPDWLRQ ERWK SXEOLVKHG DQG XQSXEOLVKHG 7HFKQRORJLHV HPSOR\HG WR PDQDJH WKLV JURZLQJ YROXPH UHTXLUH FKDQJHV LQ WKH VNLOOV QHHGHG WRILQG DQG HYDOXDWH LQIRUPDWLRQ $FTXLULQJ LULIRUPDWLRQ OLWHUDF\
ሟᅉ睶R VNLOOV䨀ሠ@Ӏՠ Ӱՠ W HVO ZLOO HQDEOH SHRSOKH�E€€Aa0�@H�wvCr€€@Ä�J�dÀp€„PE �WA‘/00„PE'�D�@p€呈䝸

F

+$33< %,57+'$< 72 86

7KH WK $QQLYHUVDU\ RI WKH IRXQGLQJ RI /,57 ZLOO EH FHOHEUDWHG DW WKH   $QQXDO &RQIHUHQFH LQ 6DQ)UDQFLVFR (YHQWV DUH VFKHGXOHG IRU DOO GD\ 6XQGD\ -XQH  LQ FRQMXQFWLRQ
ZLWK WKH