

0 \$± (XGFDWI&DQWKROLF 8QLYHUVLW\ RI \$PHULFD :DVKLQ  
(PSKDVLV DUHD 6HFRQGDU\ (GXFDWLRQ

% \$ QJ(OLVK %LRQD\ 0DU\PRXQW 8QLYHUVLW\ /RV \$QJH

352)(66,21\$/ (;3(5,(1&(

± 3UHVWQWWDQW 3UHVWQWWDQW &ROOHJH +HQGHU  
7HQXUH WUDFN SRVLWLRQ WKDW LQFOXGHV WH  
FRXUVHV

± &R&RRUGLQDWRU RI 8UEDQ 7HDFKHU (GXFDWLRQ  
&DOLIRUQLD 6WDWH 8QLYHUVLW\ 6DFUDPHQWR 6  
WPSRUDU\ IDFXOW\ WHDFKLQJ PXOWLSOH DQG VL  
SURJUDP OLWHUDF\ PHWKRGV HDUO\ OLWHUDF\  
OLWHUDF\ DFDGHPLF ODQJXDJH DQG PXOWLFXO  
&RRUGLQDWLRQ SODFHPHQW DQG VXO €QW\SORR  
VHPHVWHU RI VWXGHQW WHDFKLQJ LQ XUEDQ VFK

± VVWQW 3UHVWQWWDQW RI 1RUWK &DUROLQD  
\*UHHQVERUR 1RUWK &DUROLQD 7HQXUH WUDFN  
XQGHUJUDGDWH DQG JUDGDWH DQGLWLDLQJ  
OHYHO VWXGHQWV HQUROOHG LQ WKH 5HDGLQJ

± \$VVWQW DURIHVVLYHV \$ 0 8Q&RHSXVW&KULVWL &RU  
&KULVWL 7H[DV 7HQXUH WUDFN SRVLWLRQ WK

DÀ° RVD@GXÀY€@WH N T U €DLWHà0@0U\_W0

± ,UYHQLQRULW\ 6FKRODU ,QVWUXFWRU 8QLYH  
)UDQFLVFR &DOLIRUQLD HSHWHDFKLQJLQJLWLDLQJ  
([SHULHQFH FRXUVH DQG DVVLVWLQJ LQ WKH 5  
5HDGLQJ &HUWLILFDWH 3URJUDP IRU HOHPHQW

0DQQL (GLWRULDO \$VVLVWDQW 7H[DV 8QLYHUVLW\  
RI 7H[DV \$XVWLQ \$XVWLQ 7H[DV 5HVSQRVLELQJ

IHDWXUHV HGLWRU +HQU\ 7 7UXHED 3K ' LQ  
FDWLQJ DQG PDLQWDLQLQJ D GDWDEDVH IRU P  
RUJDQL]DWLRQRKRI\HWHGHOZVFRPLWWHH

\$VVLVWDQW , QDVVUXDFWRUQ G /LWHUDF\ 6WXGLHV  
&XUULFXOXP DQG ,QVWUXFWLRQ 7KH 8QLYHUVL  
7H[DV 5HVSQRVLELOLWLHV LQFOXGHG WKH GHV  
0DQDJHPHQW )DOO &RPPXQLW\ /LWHUD  
DQG 6RFLDO 6WXGLHV 0HWKRGV 6SULQJ J  
FRUGLQDWLQJ DQG VXSHUYLVLQJ XQGHUJUDG  
FRPPXQLW\ VHUYLFH FRPSRQHQR RI &RPPXQLW

7HDFKLQJ \$VVLVWDQWPHQXUULFXOXP DQG ,QVWU  
8QLYHUVLW\ RI 7H[DV DW \$XVWLQ \$XVWLQ 7H[  
WHDFKLQJ DQG JUDGLQJ FRXUVHV LQ \$\$\$OLHG  
5HDGLQJ 0HWKRGV )DOO 6RFLD  
/HDUQLQJ 6XPPHU &KLOGUHQ V /LWHUDWX  
DVVLVWLQJ LQ WHFKQRORJLFD FRPSRQHQR RI

8QLYHUVLW\ 6SHUWPHQWR RI &XUULFXOXP DQG  
8QLYHUVLW\ RI 7H[DV DW \$XVWLQ \$XVWLQ 7H[  
VXSHUYLVLRQ DQG ILHOG SODFHPHQW RI HOHPH  
SUHVHUYLFH WHDFKHUV VXSHUYLVLRQ RI HOHPH  
SUHVHUYLFH WHDFKHUV GHYHORSPHQW DQG LF  
'HYHORSPHQW DQGLDQDQDWLQRQ DQG DVVHVVP  
WHDFKHUV ILHOG SODFHPHQW SHUIRUPDQFH

± \$WRFLDWH 'LUHFWRU RI (GXFDWLRQ DQG 2XWUH  
6FLHQFH (GXFDWLRQHWHUYLFH 7HDFKHUV 1HZ -  
0DULQH 6FLHQFHV &RQVUWLXP 6HD \*UDQW &RQ  
1HZ -HUVH\ 5HVSQRVLELOLWLHV LQFOXGHG WH  
FRXUVHV LQ DXWKHQWLF HQYLURQPHQWV GHYH  
ZRUNVKRSV IRU . WHDFKHUV DQG JUDQW DQ  
PDQDJHPHQW

\*UDGXDWH \$VVLVWDQW 8QLYHUVLW\ RI \$PHULF  
5HVSQRVLELOLWLHV LQFOXGHG JUDGLQJ DQ XQ  
\*URZWK DQG 'HYHORSPHQW

0LGGOH 6FKRRO \*UDGH 0LGGOH 6FKRRO RHDFKH  
WKH 'LVWULFW RI &ROXPELD :DVKLQJWRQ '&  
FODVVURRP LQVWUXFWLRQ DW JUDGH &ODVV  
6FLHQFH DQG &RGLLQDWRU RI DIWHU VFKRRO  
SURJUDP

± +JK 6FKRRO <RXWK &RTHUPLQDWRU\*UHQH 6XEVS  
7HDFKHU 5DPVWLQ \$LUEDVH 'HSDUWPHQW RI  
.DLVHUVODXWHUQ \*HUPDQ\

%LOLQJXDO )RXUWK )LIWK \*UDGH (OHPHQWDU\ 6  
\$QJHOHV 8QLILHG 6FKRRO 'LVWULFW /RV \$QJHO  
LQFOXGHG FODVVURRP LQVWUXFWLRQ DQG D WUL  
WKJUDGH FODVVURRP

± )RXUWK \*UDGH (OHPHQWDU\ 6FKRRO 7HDFKHU \*L  
&RDFK\$UFKGLRFHVH RI /RV \$QJHOHV /RV \$QJHO  
5HVSRLVLELOLWLHV LQFOXGHG FODVVURRP LQV  
YDUVLW\ EDVNHWEDOO FRDFK

5(6(\$5&+

+RZ GR , WHDFK WKHP ZKHQ , GRQW VSHDN WKH ODQJX  
VWUDWHJLHV RI RQH NLQGHUJDUWHQ FODVVURRP WHDF  
8QLYHUVLW\ RI 1RUWK &DUROLQD \*UHQVERUR :

+VSDQLF ZRPHQ LQ WHDFKLQJ +RZ GLG WKH\ JHW KHU  
7H[DV \$&RUSXV &KULVWL 3ULQFLSDO ,QYHVWLJDWRU 5

:ULWJ LQ D GXDO ODQJXDJH SURJUDP 7KH GLVFRXUVH  
DQG (QJOLVK VSHDNLQJ HPHUJHQW ZULWHUV DV WKH\ C  
\$ 0 &RUSXV &KULVWL 3ULQFLSDO ,QYHVWLJDWRU 5DFK

/LWHUDF\ FRDFKHQHZOGRZLVQOHLRUB " &RUSXV[ &KULVWL  
&R3ULQFLSDO ,QYHVWLJDWRUV -DFN &DVVLG\ DQG 5DFK

:ULWH 2Q \$&RUSXV HULWLQJ 7XWRULDO 3URJUDP IRU +L  
6WXGHQWV 7H[DV \$ 0 &RUSXV &KULVWL 3ULQFLSDO D, QY

/HYHOLQJ WH[W IRU ILUVW JUDGH UHGGLQJ LQVWUXFWL  
,QYHVWLJDWRU -DPHV +RIIPDQ \$VVLVWHG LQ GHVLJQ D  
WUDQVODWHG SDUHQWDO FRQVHQVU DQDUD6SDQWH  
FROOHFWLRQ DQG DQDO\VLV

&RPLQJ WR ORYH ERRNV 5HDGLQJ SUHIH8QYHUVLWVVR  
7H[DV 3ULQFLSDO ,QYHVWLJDWRU -R :RUWK\ \$VVLVWH  
GLVVHPLQDWLHQXPDWVHVDUFK U

\*5\$176

+LVSDQLF ZRPHQ LQ WHDFKLQJ +RZ GLG WKH\ JHW KHU  
)DFXOW\ 5HVHVDUFK (QKQFHPHQW &RUSXV &KULVWL 8Q

:ULWLQJ LQ D GXDO ODQJXDJH SURJUDP 7KH GLVFRXUVH  
DQG (QJOLVK VSHDNLQJ HPHUJHQW ZULWHUV DV WKH\ C  
IRU (GXFDWLRQDO 'HYHORSPHQW DQG 5HVHVDUFK 7H[DV

5DFKHO \* 6DODV

3DJH

/LWHUDF\ FRDFKHV 2OG ZLQH LQ D QH ~~8Z USRW W&KH VMDU~~ FK  
(QKDQFHPHQW ~~WR DUDHJW~~ RI (GXFDWLRQ &R 3ULQFLSDO ,Q  
5DFKHO \* 6DODV

:ULWH 2Q \$Q DIWHU



5DFKHO \* 6DODV

3DJH

6DODV 5 \* \$ &ULWLFDO (WKQRJUDSK/HFDQRUN DW 7HD  
/LWHUDF\ 7KURXJK WKH /HQV RI D 1RYLFH .LWGHUJDUW  
\$QQXDO PHHWLQJ RI WKH 1DWLRQDO 5HDGLQJ &RQIHU

6DODV 5 \* 3HQQLQJWRQ - 3UDWHG 1RQILFWLQD WKED  
/LWHUDWXUH IRU WKH &RQWHQW \$UHDV \*UHDW %RRNV  
&ODVVURRP 0LFURZRUNV VWRQ & D VPHHWLQJ DWIWKH ,QV  
5HDGLQJ \$VVRFLDWLRQ &KLFDJR

&RRSHU - 6DODV 5 \* 5RKU - 0LOOHU 6 'XII\ \*  
WHDFKHUV SUDFWLFH :KR DP , LQ WKLW WKLQJ ZH FDO  
\$QQXDO PHHWLQJ RI WKH \$PHULFDQ (GXFDWLRQDO 5HVI

5DFKHO \* 6DODV

3DJH

6DOD5 \* /HDUQLQJ DERXW RXU FXOWXUH ,QWHJUDWL  
WKH FXUUBHFXLOXDU SUHVHQWHG DW WKH 3UHFRQIHUHQFH  
5HDGLQJ &RQIHUHQFH &RUSXV &KULVWL 7;

6DODV 5 \* %RJJV 0 5HFKLW 5 , FDQ ZULWH DER  
ZKHUH GR , VWIDUHWWH3DFKHUHU ZRUFRIPOH /DWLQR /VXGHQ  
DIWHFKRRO ZULWLQJ FOXE 3DSHU SUHVHQWHG DW WKH  
DQQXDO PHHWLQJ 0LDPL )/

6DODV 5 \* ([SORULQJ +LVSDQLF FKLOGUHQV OLWHU  
6XEFRPDQGDQWH 0DUFRV 3UHFRQIHUHQFH ,QVWLWXWH  
&RQIHUHQFH &RUSXV &KULVWL 7;

6DODV 5 \* \$ /DWLQD SHUVSHFWLYH \$ ORRN DW :KL  
FKLOGUHQ SUHVHQWHG DW WKH 0LDPL PHHWLQJ  
\$QWRQLR 7;

6DODV 5 \* \$ ORRN DW :KLWH SUHVHUYLFH WHDFKHU  
OLQJXLVWLF GLYHUVLWYFRPPH SUHGRDQDWRQ /DWLQR  
3DSHUWHGHU SUHVHQWHG DW WKH RI WKH \$PHUL  
5HVHDFK \$VVRFLDWLRQ 6HDWWOH :DVKLQJWRQ

6DODV 5 \* \$ PXOWLFXOWXUDO OLWHUHF\ H[SHULHQ  
ILFWLRQ LQ WKH FODVVURRP 3DSHU SUHVHQWHG DW W  
\$QQXDO 5HDGLQJ &RQIHUHQFH &RUSXV &KULVWL 7;

6DODV 5 \* \$ ZRUMHUQ SUHJWHDFK HUHQSFRUPHH SDWLRO  
VXGHQWV ZKR DUH VWUXJJOLQW KHFDJHLSK\ 3DSHU  
&RQIHUHQFH 3KLODGHOSKLD 3\$

6DODV 5 \* 3HQQLQJWRQ - +RIIPDQ - /LWHUHF\ D  
FRPXQLGDG 3UHVHUYLFH WHDFKHUV YLHZV RQ WXWR  
SUHVHQWHG DW WKH PHHWLQJ 2UODQGR

6DODV 5 \* \*XHVW (GLWRU 1DWLRQDO 5HDGLQJ &RQ  
[KWWSZ.RDNODQG.HGX.aPFHQHDQH.QUF.QUFLQGH.KWPC](#)

6DOD5 \* 0H[LFDQ \$PHULFDQV LQ DGROHVFHQW FKLO  
3DSHU SUHVHQWHG DW WKH ,QWHUQDWLRQDO 5HDGLQJ  
\*XDGDODMDUD 0H[LFR

6DODV 5 \* 6ODYH OLWHUHQDFG GEGKXP \$QRW HIEHD 0X P6 P  
\$PHULFDQ UHGLQJ LQVWUXFWLRQ 3DSHU SUHVHQWHG  
&RQIHUHQFH 2UODQGR )/

5DFKHO \* 6DODV

3DJH

:RUWK\ - 3DWWHUVRQ ( 8 3UDWHU 6 7XUQHU 0 6D  
RIHOHPHQW)GHQWV LQ D VFKRRO3BDMHG\$WXWFRULQG \$WV  
1DWLRQDO 5HDGLQJ &RQIHUHQFH WK DQQXDO PHHWLQ

6DODV 5 \* 3UHVHUYLFH WHDFKHU HGXFDWLRQ \$XV  
/DQJXDJH \$UWV 9LGHR 3URGXFWLRQ

6DODV 5 \* <HV WKHUH LV PDJLF LQ OLWHUDWXUH  
\$WKHQV \*HRUJLD 1DWLRQDO 5HDGLQJ 5HVHDFK &HQ

7LHGHPDQQ - 6DODV 5 \* 2SHUDWLRQ SDWKILQGH  
HGXFWRUV 3UHVHQWHG DW WKH &RDVWDO =RQH &RQ

7LHGHPDQQ - 6DODV 5 \* \$XWKHQWLF VFLHQFH W  
DSSURDFK 3DSHU SUHVHQWHG DW WKH ODULQH 7HFKQ  
([SRVLWLRQ :DVKLQJWRQ '&

6DODV 5 \* 7LHGHPDQQ - \$TXDWLF UHVRXUFH PRO  
WHFKQLTXH IRU HGXFWRU WUDLQLQJ 3DSHU SUHVHQV  
(VWXDULQH 5HVHDFK )HGHU,WDRQ&RQI&UHQFMUDEWV  
\$EVWUDFWV RI WKH WK %LHQQLDO ,QWHUQDWLRQDO

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\$PHULFDQ (GXFDFWLRQDO 5HVHDFK)WDRFLDQ)RQO\$Z\$  
8QLYHUVLW\ )HOORZVKR XđQLDO ,QuZVH Õ`LO TM Z@



5DFKHO \* 6DODV

3DJH