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3 U H V \$ V Q W L V W D Q W 3 U R I H V V R U R I 6 R F L R O R J \ % U \ Q 0 D Z U & R O O  
9 L V L W L Q J \$ V V L V W D Q W 3 U R I H V V R U R I 6 R F L R O R J \ % U \ Q 0

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3 K ' 8 Q L Y H U V L W \ R I 3 H Q Q V \ O Y D Q L D  
6 R { A ! O & D ` € P D F X P / D X G H 3 K L % H W D . D S S D

ZZZ D P D Q G D E D U U H W W F R [ F R P

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2 U J D Q L ] D W L R Q V D Q G S R Z H U H F R Q R P L F V R F L R O R J \ H F R Q R P L F H  
P R E L O L W \ V R F L D O F D S L W D O V R F L D O Q H W Z R U N D Q D O \ V L V H P R V

\$ P H U L F D Q 6 R F L R O R J L F D O \$ V V R F L D W L R Q V H F W L R Q R Q 6 R F L R O R J \&  
R [ \$ P D Q G D % D U U H W W \$ P \ & 6 W H L Q E X J O H U D Q G 5 D Q G 4 X L Q Q 3 , W  
D Q G : K R < R X \$ U H 6 R F L D O & D S L W D O 1 6 Q F D L R D R R R Q I % D V H G 3 D U H Q W 1  
( G X F D W L R Q

4 X L Q Q \$ P D Q G D % D U U D H Q W G \$ & R [ 6 W H L Q E X J O H U 3 6 R F L D O 3 R V L W L R Q R U 6  
3 D U W L F L S D W L R Q " \$ F F H V V D Q G 0 R E L O L ] D W L R Q R I 6 R F L D O & D S L W D O L  
( G X F D W L R Q D O 5 H V H D U F K H U

& R [ \$ P D Q G D % Q U L Q H M H W U H G 6 W U X J J O H D Q G μ ( D U Q H G ¶ 6 X F F H V V 3 U H S D  
8 S Z D U G 0 R E L O L W \ Y L D ( O ' I X W % R % R D M Q U L Q D O % \$ R Q G W W H ( O O L R W % : H  
2 U J D Q L ] D W L R Q D O \$ X W K R U L W \ L Q D C  
6 \ P E R O L F & D S L F W K B O V' & R O O H J H 5 H F F

&R[ \$PDQGD %DUUHWV ³&RKRUWV μLEOLQJV ¶ DQG 0  
 WKH &UHDWLRQ RI 6RFLDO &DSLWDO ' 6RFLRORJ\ RI (GX  
 5HFHLYHG -DPHV ' 7KRPSVRQ \*UDGXDWH 6WXGH  
 0HQWLRQ \$PHULFDQ 6RFLRORJLFDO \$VVRFLDWLRQ  
 2FFXSDWLRQV DQG :RUN  
 5HFHLYHG 'DYLG /HH 6WHYHQVRQ \$ZDUG IRU 2XV  
 3DSHU +RQRUDEOH 0HQWLRQ \$PHULFDQ 6RFLRORJ  
 6RFLRORJ\ RI (GXFDWLRQ  
 6WHLQEHUD 0DSWVWQHGD 3%DWDQHGWV &R[ ³6FKRRO \$XWRQR  
 6XSSRUW +RZ 3ULQFLSDOV 5HVSRRQG WR D 7LHUHG \$XW  
 6FKRROGUVKLS DQG 3ROLF\ LQ 6FKRROV  
 &R[ \$PDQGD %DUUHWV ³0HFKDQLVPV RI 2UJDQL]DWLRQ  
 \*UHHG\ ,QVWLWXWLRQ 7KRU\ ' 6RFLRORJLFDO )RUXP  
 &R[ \$PDQGD %DUUHWV ³&RUUHFWLQJ %HKDYLURV DQG  
 ,QIUDFWLRQV %HFRPH )HHOLQJ 5XOH 9LRODWLRQV ' 6\P  
 5HFHLYHG \*UDGXDWH 6WXGHQW 3DSHU \$ZDUG \$  
 \$VVRFLDWLRQ VHFWLRQ RQ 6RFLRORJ\ RI (PRWLRQV

## %RRN &amp;KDSWHUV

/DUHDX \$QQHWWH DQG \$PDQGD &R[ ³6RFLDO &ODVV D  
 'LIIHUFQHV LQ 3DUHQWV¶ ,QWHUDFWLRQV ZLWK ,QVWL  
 &KDQJLQJ )DPLOLHV LQ DQ 8QHTXDO \$PHULFD HGLWHG  
 6WDQIRUG &\$ 6WDQIRUG 8QLYHUVLV\ 3UHVV

## 2WKHU 3XEOLFDWLRQV

5HPLOODUG -\$PDQGD 7%³DQGWRUV¶ ,QWURGXFWLRQ WR V  
 /HDUQLQJ IURP -HDQ \$Q\RQ ' 3HUVSHFWLYHV RQ 8UEDQ  
 -DFREV &KDUORWWH ( 3HWHU - .XULOR&R[ 6KDQQQRQ +  
 ³5HDFKLQJ \*LUOV ' 3KL 'HOWD .DSSDQ  
 &R[ \$PDQGD ³5RSL6MZXGIHQW 7RS 6FKRRO" +RZ 6RFLDO  
 9DOHGLFWRULDQ\ \*\$ :W5D&RQOBJH7HDFKHUV &ROOHJH 5  
 KWWS ZZZ WFUHFRUG RUJ , ' 1XPEHU  
 &R[ \$PDQGD ³,QWHUJHQHUDWLRQDO 7UDQVPLVVLVRQ RI  
 (QF\FORSHGLD RI 'LYHUGLW\$HQBQDQVFDWKRRXQ/DQG 2DNV &  
 3XEOLFDWLRQV  
 &R[ \$PDQGD ³5KML%&VRW RI WKH %HVW %HFRPLQJ (OLW  
 %RDUGLQJE&FKRQD]WDPELGH )HUQDQGH] ' 7HDFKHUV &  
 KWWS ZZZ WFUHFRUG RUJ , ' 1XPEHU

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/DUHDX \$QQHWWH (OOLRW % :HLQ~~LQJHQWDQG~~ \$P DQGD  
 +XUW 6FKRQDQH<RUN 7LPHV -XQH  
 /DUHDX \$QQHWWH (OOLRW % :HLQ~~LQJHQUDQGK\$~~ PDQGD  
 3DUHQWV +ROG 6ZD\ 'L7KBLXEHOFKLQFHUR5CHSRUW -XQH

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&R[ \$PDQGD %RDZUJUHLQW 'RZQ 2UJDQL]DWLRQDO \$%MRWRHNP SWV WR 5  
PDQXVFULSW LQ SUHSDUDWLRQ  
6WQHELXJOHU \$P\ & 5\$RQDQ4XDL Q6OUDGRW WL&RG[V RI D )HDWKHU ([FKD  
7RJHWKHU" 8QGHUVWDQGLQJ 5HVRXUFH ([FKDQJH LQ D 3DUH  
&R[ \$PDQGD %7DXWU3UWWHQWDWLRQ RI D 3KLODQWKURSLF 6HOI \$  
\*LYLQJ 3OHGJH /HWWHUV  
&R[ \$PDQGD %DUUHW 31R )UHH \*LIWV" 7UDGLWLRQDO DQG 6RF  
&R[ \$PDQGD 3%DUUHW XS OHW -& GHFLGH ¶ 5XOH (QIRUFHPH  
'HPRFUDWLF 6FKRRO '

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,QVWUXFWRU RI 5HFRUG  
%H\RQG 3UHVFKRRQ SUD[LV LQGHSHQGHQW VWXG\ %U\Q 0DZU  
&DSLWDO DQG &RQQHFWLRQV \$ 1HWZRUN \$SSURDFK WR 6RF  
&RPPXQHV &R RSV DQG &ROOHFWLYHV \$OWHUQDWLYH 2UJDQ  
'LPHQVLRQV RI 3RZHU 0LFUR 0HVR DQG 0DFUR %U\Q 0DZU &R  
,QWURGXFWLRQ WR 6RFLRORJ\ 8QLYHUVLW\ RI 3HQQV\OYDQLD  
6FKRROHG ILUVW \HDU ZULWLQJ VHPLQDU %U\Q 0DZU &ROOHJH  
6RFLDO ,QHTXDOLW\ %U\Q 0DZU &ROOHJH  
6RFLHW\ &XOWXUH WKH ,QGLYLGXDO %U\Q 0DZU &ROOHJH  
6RFLRORJ\ RI &KLOGKRRG %U\Q 0DZU &ROOHJH  
7KH ([SHULHQFH RI 7UDQV 0HQ 7UDQVPDVFXOLQH 3HRSOH DW %U  
&ROOHJH

7HDFKLQJ \$VVLVWDQW

6RFLRORJ\ RI (GXFDWLRQ 6RFLDO 2UJDQL]DWLRQ RI 6FKRROV 6

6HFRQGDU\ DQG 0LGGOH 6FKRRO 7HDFKLQJ

7KH 3KLODGHSOKLD 6FKRRO

\*HUPDQWRZQ \$FDGHP\

/RRPLV &KDIHH 6FKRRO

3HGDJRJ\ 'HYHORSPHQW

7HDFKLQJ DQG /HDUQLQJ ,QVWLWXWH %U\Q 0DZU &ROOHJH )DO

6D/7 3HGDJRJLFDO 3DUWQHUVKLS 3URJUDP %U\Q 0DZU &ROOHJH

2QOLQH 7HDFKLQJ ,QVWLWXWH %U\Q 0DZU &ROOHJH 6XPPHU

&RUQHOO ,QWHUDFWLYH 7KHDWHU (QVHPEOH :RUNVKRS RQ ,QFO  
&ROOHJH )DOO

&UHDWLQJ DQG 5HWKLQNLQJ 6\OODEL %U\Q 0DZU &ROOHJH 6XP

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6XPPHU ,QVWLWXWH LQ &RPSXWDWLRQDO 6RFLDO 6FLHQFH 6,&6  
,QWHU XQLYHUVLW\ &RQVRUWLXP IRU 3ROLWLFDO DQG 6RFLDO 5  
0HWKRGV RI 6RFLDO 5HVHDUFK \$QDO\]LQJ 6RFLDO 1HWZRUN  
+LOO

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&OLIIRUG \*HHUW] 3UL]H IRU %HVW \$UWLFOH +RQRUDEO  
6RFLHW\ VHFWRQ RQ 6RFLRORJ\ RI &XOWXUH  
\*UDGXDWL 6WXGHQW 3DSHU \$ZDUG \$PHULFDQ 6RFLROR  
RI (PRWLRQV  
'DYLG /HH 6WHYHQRQ \$ZDUG IRU 2XWWWDQGLQJ \*UDGX  
0HQWLRQ \$PHULFDQ 6RFLRORJLFDO \$VVRFLDWLRQ VHF  
-DPHV ' 7KRPSVRQ \*UDGXDWL 6WXGHQW 3DSHU \$ZDUG  
6RFLRORJLFDO \$VVRFLDWLRQ VHFWRQ RQ 2UJDQL]DWL  
'XUDQW 6FKRODU 6XPPD FXP /DXGH :HOOHVOH\ &ROOH  
3KL %HWD .DSSD MXQLRU \HDU HOHFW :HOOHVOH\ &RO

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- D Q X D U \

\$ P D Q G D % D U L & H W W L & R P X P 9 L W D H

- D Q X D U \

/L O D 6 D W W O H U % U \ Q 0 D Z U & R O O H J H  
' D S K Q H 7 V D S D O D V % U \ Q 0 D Z U & R O O H J H  
3 H Q V E \ & H Q W H U ) H O O R Z V K L S 0 H Q W R U  
\$ Q G H U V R Q : L W L D N % U \ Q 0 D Z U & R O O H J H  
/L O D + i l Õ ; ã K Q H W H

\$ P D Q G D % D U L & H W W L & R P X P 9 L W D H

- D Q X D U \

Z R U N V K R S V R Q L Q W H U Y L H Z G H V L J Q V X U Y H \ G H V L J Q D

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\$ P H U L F D Q 6 R F L R O R J L F D O \$ V V R F L D W L R Q  
\$ V V R F L D W L R Q I R U 5 H V H D U F K R Q 1 R Q S U R I L W 2 U J D Q L ] D W L R Q V D Q  
(D V W H U Q 6 R F L R O R J L F D O 6 R F L H W \  
6 R F L H W \ I R U W K H \$ G Y D Q F H P H Q W R I 6 R F L R (F R Q R P L F V  
6 R F L H W \ I R U W K H 6 W X G \ R I 6 \ P E R O L F , Q W H U D F W L R Q