

72:16+,3 +,\*+ 6&+22/ ',675,&7  
3DODWLQH ,OOLQRLV

%2\$5' 2) ('8&\$7,21  
5(\*8/\$5 0((7,1\*  
-XO\

S P  
2IILFLDO

\$ UHJXODU PHHWLQJ RI WKH %RDUG RI (GXFDWLRQ 7RZQ  
,OOLQRLV ZDV\KHODWRQ S P \$LQO F(OUH\ \$GPLQLVWUDWRU\K&F  
5RVHOOH 5RDG 3DODWLQH ,OOLQRLV

52// &\$//

2Q D ~~WR~~WKH IROORZLQJ RIILFHUV DQG PHPEHUV ZHUH

3K\VLBDH\HGW 3HWHU 5 'RPEURZVNL OHPEHU  
:LOO +LQVKDZ 9LFH 3UHVLGHQW DQG  
\$QQD .OLPNRZLF] 6HFUHWDU\ DQG OH  
5REHUW - /H)HYUH -U OHPEHU  
6WHYHQ 5RVHQEOXP OHPEHU  
(GZDUG 0 OHPEHU  
OXFLD \$ %XUNH 3UHVLGHQW DQG OH

3UHVHQW %\ 2WKHU 1OHQV

\$EVHQW 1RQH

\$OVR SUHVHQW ZHUH 'DQLHO ( &DWHV 6XSHULQWHQG  
LQWHUHVWHG FLWLJHQV DQG PHPEHUV RI WKH SUHV

3OHGJHRLSDQFH

3UHVLGHQW %XUNH OHG WKH %RDUG RI (GXFDWLRQ DQG

&LWLJHQV 3HWLWLRQV DQG \$SSHDUDQFHV

3UHVLGHQW NHG LI WKHUH ZDV DQ\ RQH DGGH ZKHQ GQRWR  
WKH VSHDQ\WKHQ ZLVKHG WR VSHDQ\WKHQ DGGH  
%RDUG

3DODWLQH 7RZQVCLS 6XSHU-RKQDQG DRHQ\Q&OXW]RI ,QYH  
3UHVLGHQW (LOHHQ .RKQH

3UHVLGHQW %XUNH LQWURGXFHG 6KDORWLDKJONRQV KLS  
:RPHQ\V &OXE RI ,QYHUQHVV 3DVW 3DQVBRQDQ (LOHHQ.RR  
SUHVHQWHG WKH%RDUGLGRQDWHLOH BDODWLQH 7RZQVCLS  
)XQDQGI RQ V\K\BQ\V &OXE RILQDGLQVXVDRQH IRU WKI  
VWXGHQWV LQ QHHG

3UHVHQWDWLRQ 3URJUHWWULFZD \$FDOSHPLEQJ '



1D\

1RQH

7KH PRWLRQ FDUULHG XQDQLPRXVO\

6WXGHQW \$FWLWVSLWREIVÀ5HBRQWEXOSHxJLRQ VHFàï

0UV .OLP ~~REZHF~~ PRWLRQ UVH ~~FRQ~~ ~~WGW~~ H VWXGHQW DFW  
FRQYHQ ~~Q~~ ~~Q~~ ~~U~~ ~~M~~ ~~S~~ ~~R~~ ~~U~~ ~~W~~ ~~K~~ ~~N~~ ~~S~~ ~~G~~ ~~L~~ ~~R~~ ~~J~~ ~~G~~







2Q ZKLFK ~~PRV~~ ~~ORQ~~ FDOO YRWH ZDV KHOG ZLWK WKH IROOR

\$\H 5REHUW /H)HYUH  
6WHYHQ 5RVHQEEXP  
:LOO +LQVKDZ  
\$QQD .OLPNRZLF]  
(GZDUG <XQJ  
3HWHU 'RPEURZVNL  
0XFLD %XUNH

1D\ 1RQH

7KH PRWLRQ FDUULHG XQDQLPRXVO\

1DWLRQDO 6FKRRO %RDUGV \$VVRELDWLRQ 1DWLRQDO &RQQH

0UV .OLPNRZLF] PDGH D ~~PRV~~ ~~ORQ~~ ~~FDOO~~ ~~YRWH~~ ~~ZDV~~ ~~KHOG~~ ~~ZLWK~~ ~~WKH~~ ~~IROOR~~ ~~&~~ ~~RQQH~~ ~~F~~ ~~D~~ ~~U~~ ~~G~~ ~~R~~ ~~I~~ ~~(~~ ~~G~~ ~~X~~ ~~F~~ ~~D~~ ~~W~~ ~~L~~ ~~R~~ ~~Q~~ ~~D~~ ~~O~~ ~~&~~ ~~R~~ ~~Q~~ ~~Q~~ ~~H~~ ~~F~~ ~~W~~ ~~L~~ ~~R~~ ~~Q~~ ~~I~~ ~~H~~ ~~H~~ ~~V~~ ~~R~~ ~~I~~ ~~W~~ ~~K~~ ~~H~~ ~~1~~ ~~D~~ ~~W~~ ~~H~~ ~~R~~ ~~Q~~ ~~D~~ ~~O~~ ~~&~~ ~~F~~ ~~K~~ ~~R~~ ~~R~~ ~~O~~ ~~2~~ ~~F~~ ~~W~~ ~~R~~ ~~E~~ ~~H~~ ~~U~~ ~~D~~ ~~W~~ ~~D~~ ~~F~~ ~~R~~ ~~V~~ ~~W~~ ~~R~~ ~~I~~

\$IWHU GLD ~~FURV~~ ~~ORQ~~ ~~FDOO~~ YRWH ZDV KHOG ZLWK WKH IROOR

\$\H (GZDUG <XQJ  
\$QQD .OLPNRZLF]  
6WHYHQ 5RVHQEEXP  
:LOO +LQVKDZ  
5REHUW /H)HYUH  
0XFLD \$ %XUNH

1D\ 3HWHU 'RPEURZVNL

7KH PRWLRQ FDUULHG

3RWHQWLDORUR\$MFXUH 'LVFXVVLQR

1R WRSLFV ZHUH SURSRVHG E\ WKH %RDUG RI (GXFDWLRQ

(GXFDWLRQ 5HVHDUFK 5H'YH/ORSVQD WLYH 5HSRUW

6XSHULQ ~~&~~ ~~D~~ ~~H~~ ~~Q~~ ~~G~~ ~~H~~ ~~Q~~ ~~W~~ ~~S~~ ~~R~~ ~~H~~ ~~W~~ ~~H~~ ~~S~~ ~~(~~ ~~R~~ ~~D~~ ~~W~~ ~~L~~ ~~Y~~ ~~L~~ ~~W~~ ~~L~~ ~~H~~ ~~V~~

)DFLOLWLHV &RPPLWWHH

0U <XQJ UH ~~S~~ ~~R~~ ~~E~~ ~~M~~ ~~O~~ ~~V~~ ~~E~~ ~~D~~ ~~F~~ ~~L~~ ~~O~~ ~~L~~ ~~W~~ ~~L~~ ~~H~~ ~~V~~ ~~S~~ ~~U~~ ~~R~~ ~~M~~ ~~H~~ ~~F~~ ~~W~~ ~~V~~ ~~D~~ ~~F~~ ~~U~~ ~~R~~ ~~V~~ ~~V~~ ~~'~~ ~~L~~ ~~V~~

\$QQRXQFHPHQWV

3UHV ~~%~~ ~~G~~ ~~H~~ ~~U~~ ~~M~~ ~~G~~ ~~H~~ ~~W~~ ~~K~~ ~~H~~ ~~I~~ ~~R~~ ~~O~~ ~~O~~ ~~R~~ ~~Z~~ ~~L~~ ~~Q~~ ~~J~~ ~~D~~ ~~Q~~ ~~Q~~ ~~R~~ ~~X~~ ~~Q~~ ~~F~~ ~~H~~ ~~P~~ ~~H~~ ~~Q~~ ~~W~~ ~~V~~

\$ \$XJXVW 7HDFKHU ,QRV&LDXWHV  
% 7HDFKHU ,QRV&LDXWHV  
& 7HDFKHU ,QRV&LDXWHV  
' )LUVW 'D\HM &ODVV  
( 1H[W %RDUG RI (GXFDWLRQ 0HHWLQ



\$FFHSW 5QHPEURIQW 5HT6XVHD/VW 0HPPEHUV

0UV .OLPNRZLF] PDGH D PRWLXQDVKH PRQDUG REI\ (GXFDWL  
UHWLUHPPHQWDWKHXHLQWV. QDSS HIIHFWLYH OD\ DFFRUGLQ  
'LVWULFW 8QLQWHDGII6XSERUDK ODXUR HIIHFWLYH 'HFHPEH  
&RQWUDFW RI WKH 'LVWULFW 8QHWHGWLXSDRUEURIGVIDQU &R  
ODVWHU &RQWUDFW RI WKH 'LVWULFW QDEJDEHW&QBWDLQPH&XSRHUHV  
DFFRUGLQJ WR WKH ODVWHU &RQWUDFW RI WKH 'LVWULFW  
-XQH DFFRUGLQJ WR WKH ODVWHU &RQWUDFW RI WKH 'LVW

2Q ZKLFK PRURIOQFDOO YKMHIFZDORZHLQG ZHWXOWV

\$\H 5REHUW /H)HYUH  
:LOO +LQVKDZ  
3HHU 'RPEURZVNL  
(GZDUG <XQJ  
\$QQD .OLPNRZLF]  
6WHYHQ 5RVHQEOXP  
0XFLD %XUNH

1D\ 1RQH

7KH PRWLRQ FDUULHG XQDQLPRXVO\

%RDUG 0HPEHUV 1WLMFXVWQRQJHIG %RDUGLQJ

0UV %XVNHG LI %RDUG PHPEHUV ZLVKHG WR VKDUH WKH  
RI (GXFDWLRQRPHWRQJHUHG UHPDUNV DERXW WKH PHHWLQJ

\$GMRXUQPHQW

7KHUH EHLQJ QR IXUWKHU EXVLQHVV WUHFBXHQMHUHXSRK  
GHFODUHG WKH PHHWLQJ DGMRXUQHGDW

5HVSHFWIXOO\ VXEPLWWHG

6HFUHWDU\ 'LVWULFW

3UHVLGHQW 'LVWULFW