



ARTS1631

☞hfcXi Wc fm>UdUbYgY '6

GYa YghYf'Hk c ''##'&\$%

7 ci fgY`Cj Yfj JYk

`GHUZZ7cbhUWhi8YHUJ`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWWhcb	D\cbY
B U[jgU: i _j]	b"Z _j]4 i bgk "YXi "Ui	H65	A cfj Yb'6fck b &\$*	- ' ,) '&(%

`Hi hcfj`

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWWhcb	D\cbY
M a _c`< Ug\ja chc	m\Ug\ja chc4 i bgk "YXi "Ui	H65	A cfj Yb'6fck b &\$'	- ' ,) "' +&&
5hca j`C\Ua U	U"c\Ua U4 i bgk "YXi "Ui	H65	A cfj Yb'6fck b &\$(- ' ,) "' +*'
? ja jmc`A Uhgj]	_a Uhgj]4 i bgk "YXi "Ui	H65	A cfj Yb'6fck b &\$(- ' ,) "' +*'

GWXcc`7cbhUWhi`bZcfa Uhjcb

GWXcc`cZ<i a Ub]hYg`UbX`@Ub[i U[Yg

@cWWhcb. `GWXcc`C ZWwZA cfj Yb'6fck b'6i]X]b[ž@Yj Y`ž&),

C dYb]b[`<ci fg. A cbXUm! : f]XUmž- Ua `!) da

D\cbY. Ž*%&-' ,) '%* , %

: U! . Ž*%&-' ,) ' , +\$)

9a Uj]. [\U`4 i bgk "YXi "Ui](#)

5hYbXUbW`F Yei]fYa Ybhg

5`gh XYbh]g`YI dYW`X`h`U`h`b`X`U`W`Ugg`W`cbhUWh\ci fg`Zcf`U`ZUW`!h`ZUW`fI &`E`cf`V`Yb`XYX`W`ci fgY`UbX`W`ca`d`Y`h`U`U`W`j`]h`Yg`Zcf`U`V`Yb`XYX`cf`Z`m`cb`]b`Y`W`ci fgY"

5`gh XYbhk \c`Uff]j Yg'a cfY`h`Ub`%)`a`]bi`h`Yg`U`h`a`Um`VY`d`Yb`U`]g`YX`Zcf`bcb!U`h`Yb`X`U`b`W`"Zgi`W`U`d`Yb`U`h`m`]g`]a`d`cg`YX`ž`h`Y`gh`XYb`h`a`i`gh`VY`]b`Zc`fa`YX`j`Yf`V`U`m`U`h`h`Y`Y`b`X`c`Z`W`Ugg`U`b`X`U`X`j`]g`YX`]b`k`f`]h`b[`k`]h`]b`&`\ci fg"

ZU`gh XYbhYI dYf]YbW`g`]b`Ygg`ž`a`]g`U`X`j`Y`bh`f`Y`cf`ch`Yf`c`W`W`f`f`Y`b`W`h`U`h`a`U`_`Y`g`U`V`g`Y`b`W`Z`ca`U`W`Ugg`#`U`W`j`]m`i`b`U`j`c`]X`U`V`Y`ž`cf`YI`d`Y`W`g`h`c`V`Y`U`V`g`Y`bh`Z`ca`U`Z`c`f`h`W`ca`]b[`W`Ugg`#`U`W`j`]m`ž`h`Y`m`g`\ci`X`g`Y`_`d`Y`fa`]g`]cb`Z`ca`h`Y`7`ci`fg`Y`5`i`h`cf`]m`ž`U`b`X`k`Y`f`Y`U`dd`]W`U`V`Y`ž`h`Y`]f`f`Yei`Y`gh`g`\ci`X`V`Y`U`W`W`ca`d`U`b`]Y`X`V`m`U`b`cf`[]b`U`cf`W`f`]Z`Y`X`W`c`d`m`c`Z`U`a`Y`X`]W`W`f`]Z`W`h`c`f`ch`Y`f`Z`ca`c`Z`U`dd`f`c`f`]U`h`Y`j`]X`Y`b`W`"

5`7`ci`fg`Y`5`i`h`cf`]m`ž`U`b`X`k`Y`f`Y`U`dd`]W`U`V`Y`ž`h`Y`]f`f`Yei`Y`gh`g`\ci`X`V`Y`U`W`W`ca`d`U`b`]Y`X`V`m`U`b`cf`[]b`U`cf`W`f`]Z`Y`X`W`c`d`m`c`Z`U`a`Y`X`]W`W`f`]Z`W`h`c`f`ch`Y`f`Z`ca`c`Z`U`dd`f`c`f`]U`h`Y`j`]X`Y`b`W`"

\ - , YX`Z %o cf` X

UbX#cf]ci a Y'cZ`YUfb]b["5'ghi XYbhgYY_]b[`Uddfcj U`hc`VY`UVgYbhZcf'a cfY`hUbcY'a cbh'a i ghUdd`m
]b`k f]h]b[`hc`h`Y`8YUb`UbX`dfcj]XY`U``cf][]bU`cf`W`fh]ZYX`gi ddcfh]b[`XcW`a YbU]h]cb"

: cf'a cfY`]bZcfa Uh]cb`UVci h`h`Y`U`h`Y`b`X`U`b`W`d`f`c`h`W`c`g`]b`h`Y`: UW`h`m`c`Z`5`f`h`g`U`b`X`G`c`W`U`
G`W`Y`b`W`g. [\`h`d`g.`#`k`k`"U`f`h`g`"i`b`g`k`"Y`X`i`"U`i`#`W`f`f`Y`b`h`g`h`i`X`Y`b`h`g`#`U`W`U`X`Y`a`_`W`\]`b`Z`c`f`a`U`h`c`b`#`d`f`c`h`W`c`g`!`\[`i`\]`X`Y`\]`b`Y`g`#`](#)

5WUXYa]W]bZcfa Uh]cb`

: cf`Y`g`g`Y`b`h`U``g`h`X`Y`b`h`]b`Z`c`f`a`U`h`c`b`f`Y`U`h`]b[`hc`f`Y`e`i`Y`g`h`g`Z`c`f`Y`I`h`b`g`]c`b`/`f`Y`j`]`Y`k`c`Z`a`U`f`_`g`/`c`W`W`d`U`h`c`b`U``\`Y`U`h`
U`b`X`g`U`Z`/`h`m`/`Y`I`U`a`]b`U`h`c`b`d`f`c`W`X`i`f`Y`g`/`g`d`Y`W`U`W`c`b`g`]X`Y`f`U`h`c`b`]b`h`Y`Y`j`Y`b`h`c`Z`]`b`Y`g`g`c`f`a`]g`U`X`j`Y`b`h`f`Y`/
g`h`X`Y`b`h`Y`e`i`]`h`m`U`b`X`X`]g`U`V`]`h`m`/`U`b`X`c`h`Y`f`Y`g`g`Y`b`h`U`U`W`U`X`Y`a`_`W`]`b`Z`c`f`a`U`h`c`b`z`
g`Y`Y`[\`h`d`g.`#`k`k`"U`f`h`g`"i`b`g`k`"Y`X`i`"U`i`#`W`f`f`Y`b`h`g`h`i`X`Y`b`h`g`#`U`W`U`X`Y`a`_`W`\]`b`Z`c`f`a`U`h`c`b`#`d`f`c`h`W`c`g`!`\[`i`\]`X`Y`\]`b`Y`g`#`](#)

7ci fgY'8YHJ]`g

7fYX]hDc]bng`*`

Gi a a UfmicZ\h\Y'7ci fgY

Gi V\YWi5fYU.`<SbS` WēWE fgV[Wē

H\Y`Wēi fgY`Zc`ck g`f`b`hfcXi Wc`fm>UdUbYgY`5fiUbX`Zi f\h\Yf`]b`hfcXi Wg`U`bi a VYf`cZVUg]W>UdUbYgY
g`f`i W`i fYg`UbX`j`cWUvi`Ufmi`h`U`h`UfY`YggYb`h]U`h`c`V`Ug]W>UdUbYgY`Wēa`a`i`b]WU`h]c`b`" `#i`U`g`c`c`Z`Y`f`g`Y`U`f`b]b[`c`Z
UVci`h`-`\$`b`Yk`?`Ub`↑`ž>UdUbYgY`W`X`U`f`U`W`Y`f`g`"M`c`i`k`]`"Y`U`f`b`h`Y`a`h`f`c`i`[`\`Z]`Y`W`h`f`U`h`c`d]Wg.`%":`Uj`ci`f]h`Y
h`]b[`g`U`b`X`U`W`h]j`h]Y`g`ž`&":`Ua`]`m`ž`"":`cc`X`ž`".....("H`f`U`j`Y`]b[`d`U`b`g`ž`)"`5`b`b`i`U`Y`j`Y`b`h`g`" `#`Y`U`W`h`c`d]W`ž
k`\`Y`g`h`X`m]b[`h`Y`U`b[`i`U[`Y`ž`m`c`i`U`f`Y`W`X`U`Y`b[`Y`X`h`c`X]g`W`ē`j`Y`f`X]Z`Y`f`Y`b`h`U`d`d`f`c`U`W`X`Y`g`h`c`j`]Y`k`]b[`h`Y`k`c`f`X
gi`f`f`c`i`b`X]b[`m`c`i`" `]b[`i`]g`h]W`U`m`U`b`X`W`h`f`U`m`ž`U`b`X`U`f`Y`[`]j`Y`b`h`Y`c`d`d`c`f`h`b]m`h`c`i`b`X`Y`f`g`h`U`b`X`W`f`f`Y`b`h`g`c`V]c!
W`h`f`U`]g`g`i`Y`g`]b`>UdUb`"

5h\h\Y`WēbWi`g]c`b`c`Z`h`]g`Wēi`fgY`h\Y`g`h`XY`b`h`k`]`V`Y`U`V`Y`h`c`

%" Gi`g`h]U]b`g]a`d`Y`Wē`b`j`Y`f`g`U`h]c`b`g`]b`>UdUbYgY`k`\`Y`b`h`U`_]b[`U`V`c`i`h`c`b`Y`f`g`Z]J`a`]m`U`b`X`Y`j`Y`f`m`X`U`m`]Z`Y`"
&" F`Y`U`X`U`b`X`k`f]h`Y`g]a`d`Y`g`l`c`f`h`d`U`g`g`U[`Y`g`]b`>UdUbYgY`ž`]b`Wi`X]b[`b`Y`k`",`+`?`Ub`↑`d`i`g`h`Y`]f`

5ggYgga Ybh

5ggYgga YbhHUg_g`

5ggYgga YbhHUg_	K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
K f]h]b['HYghg`	')	K YY_('fB]WU]cb`%žK YY_`+ fA]X!hYfa ŁžUbX`K YY_`%& fB]WU]cb`&Ł	%ž&ž
hYfUW]cb`HYgh	&\$	K YY_`-	%ž ž{
@YUfb]b[`Dfc YWŸ	%\$	K YY_`%	%ž ž{
:]bU`9I Ua `	')	9I Ua `dYf]cX	%ž&ž

5ggYgga Ybh8YHU]`g

5ggYgga Ybh%`K f]h]b['HYghg

GhfhXUIGhfhXUŸ.

Gi Va]gg]cb'cZ5ggYgga YbhHUg_g

Gh XYbHg'UfY'YI dYWX'hc'di hHAY]f'bUa Yg'UbX'ghi XYbhbi a VYfg'cb'Yj YfmdU[Y'cZHY]f'Ugg][ba Ybhg"

Hi fb]hb'Gi Va]gg]cb

Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UHYa dh]b['hc'gi Va]hrci f'Ugg][ba YbhHfci [\ 'Hi fb]hbzd'YUgY
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-',) ' ' ' %cf'Ya U]'HYa 'cb'[YI HYfbU'HY'ggi ddcfh4 i bgk "YXi "Ui."](#)Gi ddcfh
\ci fg'UfY', .\$\$Ua '-%\$.\$\$da 'cb'k YY_XUmg'UbX'-. \$\$Ua '-). \$\$da 'cb'k YY_YbXg'f1 *) 'XUmg'U'mYUfL" Zmci
UfY'i bUV'Y'hc'gi Va]hrci f'Ugg][ba YbhXi Y'hc'U'ZU' 'hk]H'Hi fb]hb'rci 'a UmiUdd'mZcf'Ub'YI HYbg]cbZ'Vi hrci
a i ghfYH]b'rci f'h]W_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb['k]H'UbmchYf'fY'Yj UbhXcW a Ybhgk'hc
]bWi XY'Ug'Yj]XYbW'hc'gi ddcfhrci f'YI HYbg]cb'Udd']W]hcb" Zmci 'Ya U]'9I HYfbU'Gi ddcfhrci 'k]`
Ui hca UH]W'`miFYW'j] Y'U'h]W_Yhbi a VYfZ'Vi h]Zmci 'HY'Yd\cbY'rci 'k]`bYYX'hc'gdYW]W'`mUg_'Zf'cbY"
Hi fb]hb'U'gc'dfcj]XYg'i dXUH'g'cb'HY]f'gmghYa 'ghUH'g'cb'Hk]HYf"

; YbYfU'`mZ'UggYgga YbhHUg_g'a i ghVY'gi Va]HYX'Y'YWfcb]W'`mj]U'Y]H'Yf'Hi fb]hb'cf'U'A ccX'Y
Ugg][ba Ybh'`b]bgHUbW'g'k \YfY'h.]g]g'bchidcgg]V'YZ]hk]`VY'gUH'X'cb'rci f'Wci fgY'g'A ccX'Y'g]HY'k]H
U'HYfbUH] Y'gi Va]gg]cb'XYH]g"

@UH'5ggYgga YbhDYbU'h]Yg

Gh XYbHg'UfY'fYgdcbg]V'Y'Zcf'HY'gi Va]gg]cb'cZUggYgga YbhHUg_g'VmiHY'fYei]fYX'XUH'g'UbX'h'a Yg"
8YdYbX]b['cZHY'YI HYbhcZXY'Um]b'HY'gi Va]gg]cb'cZUb'UggYgga YbhHUg_'dUghHY'Xi Y'XUH'UbX'h'a Yz

- K cf_gi Va]hYX`%\$`hc`%-`XUmg`UZhYf`h`Y`gh]di`U`hYX`XYUX`]bY`k`j`VY`UggYggYX`UbX`ZYXVUW`dfcj`]XYX`Vi`hU`a`Uf`_`cZnYfc`k`j`VY`fYW`fYX`" `Z`h`Y`k`cf`_`k`ci`X`\\Uj`Y`fYW`j`YX`U`dUgg`a`Uf`_`Vi`hZcf`h`Y`U`h`b`Y`gg`UbX`h`Y`k`cf`_`]g`U`W`a`di`gcfm`W`i`fgY`W`a`dcbYbhf`i`fX`Y`fYei`]fYa`YbH`Z`U`gh`XYbhk`j`VY`XYa`YX`h`_`Uj`Y`a`Yh`h`UhfYei`]fYa`Ybh`/`
- K cf_gi Va]hYX`&\$`cf`a`cfY`XUmg`UZhYf`h`Y`gh]di`U`hYX`XYUX`]bY`k`j`bchVY`U`W`W`d`h`Y`Z`cf`UggYgga`Ybh`UbX`k`j`fYW`j`Y`bc`ZYXVUW`z`a`Uf`_`cf`[`fUXY`" `Z`h`Y`UggYgga`Ybh`Ug`_`]g`U`W`a`di`gcfm`W`a`dcbYbhcZ`h`Y`W`i`fgY`U`gh`XYbhk`j`fYW`j`Y`Ub`l`bgUhgZ`U`W`c`fm`:`U`]`f`l`:`k`[`fUXY`Ug`U`fYgi`h`c`Z`i`bgUhgZ`U`W`c`fmdYfZ`fa`UbVW`]b`Ub`YggYbh]U`W`a`dcbYbhcZ`h`Y`W`i`fgY`"

H\]g`]bZ`fa`U`h`cb`]g`U`gc`Uj`U`]\$

%ofm

%o %o

%o

5 WUXYa]W<c bYghmUbX 'D`U[]Uf]ga

D`U[]Uf]ga]g`i g]b['hY`k cfXg`cf]XYUg`cZchYfg`UbX`dfYgYbh]b['hYa`Ug`mci f`ck b" #WUb`hU`Y`a Ubm
Zcfa gZ`Zca`XY`]VYfUHY`WXYU]b['hc`UWV]XYbU`mW`dm]b[`Zca`U`gci fW`k]hCi hUW_bck`YX[Ya`Ybh`

I BGK` [fci dg`d`U[]Uf]ga`]bhc`hY`Zc`ck]b[`WUHY` [cf]Yg.

7cdm]b[.`i`g]b['hY`gUa`Y`cf`j`Yfmg]a`]Uf`k`cfXg`hc`hY`cf][]bU`hY`hcf`]XYU`k`]hCi hUW_bck`YX[]b['hY`
gci fW`cf`i`g]b[`ei`chU]cb`a`Uf`g`"H`]g`U`gc`Udd`]Yg`hc`]a`U[YgZ`UfhUbX`XYg][`b`dfc`YWgZ`Ug`k`Y`Ug`
dfYgYbhU]cbg`k` \Yf`gca`YcbY`dfYgYbh]b[`Ubc`h`Y`f`g`]XYUg`cf`k`cfXg`k`]hCi hWYX]h`

#Uddfcdf]UHY`dUfUd`fUg]b[.`W`Ub[]b[`U`Zy`k`cfXg`UbX`d`fUgYg`k` \]Y`a`cghm`fYU]b]b['hY`cf][]bU`
g]fi`W`fY`UbX`]bZcfa`U]cb`k`]hCi hUW_bck`YX[Ya`Ybh`"H`]g`U`gc`Udd`]Yg`]b`dfYgYbhU]cbg`k` \Yf`gca`YcbY`
dUfUd`fUgYg`Ubc`h`Y`f`g`]XYUg`cf`k`cfXg`k`]hCi hWYX]h` #U`gc`Udd`]Yg`hc`d`]YW]b[`hc`[Y`h`Y`f`ei`chYg`UbX`
dUfUd`fUgYg`]bhc`U`b`Y`k`k` \c`Y`Z`k`]hCi hfY`ZYfYbW]b[`UbX`U`gh`XYbh`g`ck`b`UbU`mg]g`hc`V`f]b['hY`a`U`h`f]U`
hc`[Y`h`Y`f`"

7c`i`g]cb.`k`cf_]b[`k`]h`ch`Y`fg`Vi`hdUgg]b[`cZ`h`Y`k`cf_]Ug`U`dYfgcb`g`]bX]j`]Xi`U`k`cf_]7c`i`g]cb`U`gc`
]bWi`XYg`dfcj`]X]b[`mci`f`k`cf_]hc`Ubc`h`Y`f`gh`XYbhVY`Zc`fY`h`Y`Xi`Y`XU`h`Zc`f`Zc`f`h`Y`di`fdcgY`cZ`h`Ya`
d`U[]Uf]g]b[`Uh`Ubmi]a`Y`Z`dUm]b[`Ubc`h`Y`f`dYfgcb`hc`dYf`Zc`fa`Ub`UW`X`Ya`]W`h`g`_`Z`gh`U`]b[`cf`U`W`ei`]f]b[
Ubc`h`Y`f`dYfgcb`g`UW`X`Ya`]W`k`cf_]UbX`W`dm]b[`]Z`c`Z`Y`f]b[`hc`W`ca`d`Y`h`Ubc`h`Y`f`dYfgcb`g`k`cf_]cf`g`Y`Y_]b[
dUma`Ybh`Zc`f`W`ca`d`Y`h]b[`UW`X`Ya`]W`k`cf_]`

#Uddfcdf]UHY`W`h]cb.`7`]h]b[`gci`fW`g`k` \]W` \Uj`Y`bchV`Y`Yb`fY`U`X`Z`k`]hCi hUW_bck`YX[]b['hY`"gY`W`b`X`U`f`m`
gci`fW`Z`ca`k` \]W`_`bck`YX[Y`cZ`h`Ya` \Ug`V`Y`Y`b`c`V`h]b]YX`"

8i`d`]W`h]cb`f`f`gY`Z`d`U[]Uf]ga` "E`gi`Va`]h]b[`mci`f`ck`b`k`cf`_`Z]b`k` \c`Y`cf`]b`dU`f`Z`k` \YfY`]h`Ug`d`fYj`]ci`g`m`
V`Y`Y`b`d`fY`dU`fY`X`c`f`gi`Va`]hY`X`Zc`f`Ubc`h`Y`f`UggY`gga`Ybhcf`W`ei`fgY`U`hI`BGK`cf`Ubc`h`Y`f`i`b]j`Yfg]m`"

7c`ffY`W`h`fY`Z`fY`bW]b[`d`fU`W`]W`g.

- VYhYf'a UbU[Y'mci f'hja Y



