



ARTS3630

5Xj UbWX'>UdUbYgY'5

HYfa 'CbY' #'&\$&%

7ci fgY`Cj Yfj JYk

7ci fgY'8YHJ]`g

7fYX]hDc]bhtg`*`

Gi a a UfmicZh\Y'7ci fgY

H\]g`Wci fgY`dfcj]XYg`mci `k]h`i ddYf!]bhYfa YX]UH`Yj Y`h`]]cb`]b`>UdUbYgY`Ub[i U[Y`gh Xmi` : c`ck]b[`hY
dfYfYei]g]h`f`b`h`fa YX]UH`>UdUbYgY`6fzcfYei]j U`Ybhz`mci `Wcb]bi Y`hc`XYj Y`cd`mci f`]bhYfW`h`fU`
Wca a i b]W]h]cb`g_]`g`Ug`k Y`Ug`YUfb`bYk`>UdUbYgY`ghfi W`h`fYgZ`YI dfYgg]cbgz`UbX`]bhYfUW]cb`ghfUH`[]Yg`
Mci `k]`YI dUbX`mci f]j cW]Vi `UfmVmi`YUfb]b[`&\$\$_Ub`^`7i ffYbhgcW]c!W`h`fU`]ggi Yg`]b`>UdUb`UFY`h`Y
h`Ya Uh]WZ`W`g`cZ`h`Y`Wci fgY"

7ci fgY`@YUfb]b[`Ci hWca Yg

%` 7ca a i b]W]h`_bck`YX[Y`cZ>UdUbz>UdUbYgY`Ub[i U[Yz`UbX`Wca a i b]W]h]cb`g_]`gZ`]b`cfU`
dfYgYb]h]cbg`gdc`_Yb`]b`>UdUbYgY`
&`K`f]h`fYdcfh`i`g]b[`>UdUbYgY`k`f]h]b[`ghmiY`
'`5Wca d`]g\`h]g`_g`k`h`dYYfg`"

HYUW]b[`GhfUH`[]Yg`

@YW`h`fYg`XY`]j Yf`gcW]U`UbX`W`h`fU`]ggi Yg`fY`UH`X`hc`h`Y`hc]d]WcZ`h`Y`k`YY`_`B`Yk`ghfi W`h`fYg`#`fUa a Ufg`UFY
U`gc`YI d`U]bYX`G`h`XYbhtg`dfcUW]j Y`mdUfh]W]dUH`]b`dfUW]W]g`cZbYk`YI dfYgg]cbgz`j`cW]Vi `Uf]YgZ`UbX`?`Ub`^`
UbX`]bhYfUW]k`]h`Z`^`ck`gh`XYbhtg`Uh`h`Y`YW`h`fYg`"

@YW`h`fYg`UFY`XY`]j YfYX`i`g]b[`a`c`"

c!Wg`Uh`h`Y`

5ggYgga Ybh

5ggYgga YbhHUg_g

5ggYgga YbhHUg_	K Y][\h	8i Y'8UH	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
GdYU_]b['hYgh	&\$i	Bch5dd']WUVY	%ž'
:]bU`YI Ua]bUh]cb`	(\$i	Bch5dd']WUVY	%ž&
Dfc YWñ	(\$i	&' #\$(#&\$&%%%\$ \$'DA	%ž' &ž'

5ggYgga Ybh8YHU]`g

5ggYgga Ybh% 'GdYU_]b['hYgh

GHUfhXUH. 'Bch5dd']WUVY

8YHU]`g.

9UWX`gh XYbhk]`dYfZcfa `U`fc`Y`d`Umk]h`UbchYf`gh XYbhf)!*`a]bg#dU]fL"

K f]hYb`ZYXVUW_k]`VY`[]j Yb`j]U`bi a Yf]W`[fUXY`UbX`k f]hYb`Wta a Ybh`

5XX]h]cbU`XYHU]`g.

GYY`A ccXY`Zcf`XYHU]`g

Hi fb]h]b`gYH]b[. H\]g`]g`bchU`Hi fb]h]b`Ugg][ba Ybh

5ggYgga Ybh&. :]bU`YI Ua]bUh]cb

GHUfhXUH. 'Bch5dd']WUVY

8YHU]`g.

Gh XYb]g`k]`Wta d`YH`Z]bU`YI Ua]bUh]cb`Xi f]b[`YI Ua `dYf]cX"

: YYXVUW_k]`VY`[]j Yb`i dcb`fYei Ygh`

Hi fb]h]b`gYH]b[. H\]g`]g`bchU`Hi fb]h]b`Ugg][ba Ybh

5ggYgga Ybh' . 'Dfc YWñ

GHUfhXUH. '&#&#&\$&%\$- . \$\$'5A

8YHU]`g.

Gh XYb]g`k]`Yb[U[Y]b`U`j Uf]YhmcZUW]j]hYg`hc`YUfb`>UdUbYgY`Ub[i U[YžW`hi fYžUbX`]bhYfW`hi fU`

Wc a a i b]WU]cbzWc]bg]gh]b['cZUddfcl "'&\$!' \$'a]bg'cb'U'k YY_'mVUg]g"'H\Y'UW]j]h]Yg]bW] XY'U
[fci d#]bX]j]Xi U''dfYgYb]h]cb'f# 'a]bg]z'd'Um]b['U'fc'Y'Ug'hi'hc'f]U''YUXYfz'UbX]b]h]fUW]h]b['k]h'>UdUbYgY
dYcd'Y#g]dYU_Yfg'UhUb'Yj Ybh\Y'X'ci'hg]XY'I B GK "'Gh XYb]hg'k]''h\Yb'fYZYW]UbX'k'f]h'U'fYdc'f]h'f(\$\$!) \$\$
W\UfUW]Yfg#fYdc'f]h'cb'h\Y]f'YI dYf]YbW]g"

K f]h]Yb'ZYXVUW_k]''VY' []j Yb'j]U'bi a Yf]W]'' [fUXY"

5XX]h]cbU'XYH]g.

GYY'A ccX'Y'z'f'XYH]g

Hi fb]h]b'gYH]b[. H\]g]g'bchU'Hi fb]h]b'Ugg][ba Ybh

5 hYbXUbW F Yei]fYa Ybhg

Gh XYbhg UfY ghfcb[mYbWci fu[YX hc UhhYbX U WUggYg UbX fYj]Yk YWih fY fYWcfX]b[g"l bYI dYWYX UVgYbW cZ&\$i fci hcZ- hi hcf]U'gk'cf'a cfY'a UmfYgi h]b hY Uk UfX'cZU'ZJ] [fUXY" b Vch YWih fYg UbX hi hcf]U'g'nci k] UWhj Y'mYb[U[Y'k]h WcfY Wci fgy WcbhYbhzYbUV]b['nci hc UhhU]b'7 @C %UbX' " 5 hYbXUbW k] VY fYWcfXYX h'fci [\ j Uf]ci g UfhZUWg h Uha Um]bWi XY U'ei]nžX]WU]cb'dfUW]WžUbX#cf U'fYWcfX'cZUhhYbXUbW"

9I d'UbU]cbg'cZUVgYbWwi

j Uf]ci g UfhZUWg h Uha Um]bWi XY U'ei]nžX]WU]cb'dfUW]WžUbX#cf

	@
@YWH FY	@YWH FY & PDA FL @

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

- 6cc_-'HcV]fU); UHk UmHc`5Xj UbW`X`>UdUbYgY`@YUfb]b[`H\fc i [\ `7 cbYbhUbX`A i `hja YX]U f&\$\$- 7
- 6cc_-'; fUa a Uf`Dck Yf.`9I YfW]gYg`; cf`A UghYfmf&\$\$%\$7
- 6cc_-'Dck Yf`I d`? Ub`j, \$\$`6Ug]W? Ub`j`5g`5`; UHk UmHc`5Xj UbW`X`>UdUbYgY`f&\$\$%\$7

F YWca a YbXYX`F Ygci fWg

- HcV]fU`k YVg]hY`""\hd.##rcV]fUk YV"- *(\$`d#
- [`\hd.##k k "\[Uj c"ti \]hc. mc"UWd#c`UX#d\fUg\]b\[#bXYI](#)

Gi Va]gg]cb 'cZ5ggYgga YbhiHUg_g

Hi fb]h]b 'Gi Va]gg]cb

Ʒmci 'YbWci bHYf'U'dfcV'Ya 'k \Yb'UH'Ya dh]b['hc'gi Va]hmc i f'Ugg][ba YbhiH'fci [\ 'Hi fb]h]bž'd'YUgY
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-',) " ' ' %cf'Ya U] 'H'Ya 'cb'YI HYfbU'HY'fgi ddcfh4 i bgk "YXi "Ui "'Gi ddcfh
\ci fg'UfY', .\$\$Ua '—%\$.\$\$da 'cb'k YY_XUmg'UbX'-. \$\$Ua '—) .\$\$da 'cb'k YY_YbXg'fI *) 'XUmg'U'mYUfI" Ʒmci
UfY'i bUV'Y'hc'gi Va]hmc i f'Ugg][ba YbhiXi Y'hc'U'ZU' 'hk]H'Hi fb]h]b' mci 'a UmUdd'm'Zcf'Ub'YI HYbg]cbž'Vi hmc i
a i ghfYHU]b' mci f'h]W_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb['k]H'UbmcH'Yf'fY'Yj UbhXcW a YbHgE'hc
]bWi XY'Ug'Yj]XYbVW'hc'gi ddcfhmci f'YI HYbg]cb'Udd']W]h]cb" Ʒmci 'Ya U] '9I HYfbU'Gi ddcfhmci 'k]`
Ui 'ca UH]WU'`mfYW]j Y'U'h]W_Yhbi a VYfž'Vi h]Zmci 'HY'Yd\cbY' mci 'k]`bYYX'hc'gdYW]Z]WU'`mUg_ 'Zcf'cbY"
Hi fb]h]b'U'gc'dfcj]XYg'i dXUH'g'cb'H'Y]f'gmgh'Ya 'ghU'hi g'cb'Hk]H'Yf"

; YbYfU'`mž'UggYgga YbhiHUg_g'a i ghVY'gi Va]H'YX'Y'YW'fcb]WU'`mj]U'Y]H'Yf'Hi fb]h]b'cf'U'A ccX'Y
Ugg][ba YbH' 'b]bgHUbVW'g'k \YfY'H']g]g' bchidcgg]V'Yž]hk]`VY'ghUH'X'cb' mci f'Wci fgY'g'A ccX'Y'g]H'k]H
U'HYfbUH] Y'gi Va]gg]cb'XYHU]g"

: cf]bZ'fa UH]cb'cb'\ck 'hc'gi Va]hUgg][ba YbHg'cb']bY'j]U'A ccX'Y. \`Hdg.#gh XYbH'i bgk "YXi "Ui #ck!
gi Va]hUgg][ba YbH'a ccX'Y

5 WUXYa]W< cbYgmiUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[`h`Y`a` `U`g`m`c`i`f`c`k`b`" `#`W`U`b`h`U`_`Y`a` `U`b`m`
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[`h`c` `U`W`W`Y`X`Y`b`h`U` `m`i`W`c`d`m]b[`Z`c`a` `U`g`c`i`f`W` `k`]h`c`i`h`U`W`_`b`c`k` `Y`X[`Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k`]b[`W`U`h`Y`[`c`f`]Y`g.

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V]]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wc'dmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi WñUbX'5Ww'dhUV'Y'I gY'cZ
I BGK '⇒H'F Ygci fW'g'Dc`]Wñ
-

5 WUXYa]W=Zcfa Uh]cb

: cf`YggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`tc.

- fYei Ygth`Zcf`Yl Hrbg]cb/