



# ARTS1661

WcXf? cYUb'6

HYfa 'H\fYY'##'&\$&\$

7 ci fgY`Cj Yfj ]Yk

GhJZZ`7 cbhJWw`8YhUj`g

7cbj Ybcfg

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWjhcb	D\cbY
; ]!<mi b`G\]b	[ "g\]b4 i bgk "YXi "Ui	6m5ddc]bta Ybh	&\$&`A cfj Yb 6fck b	- ' , ) %+' %

GWxcc``7cbhJWw`bZcfa Uhjcb

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

@cWjhcb. `GWxcc``C ZjWzA cfj Yb`6fck b`6i ]X]b[ ž@Yj Y``&ž&),

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

D\cbY. `ž\*%&`- ' , ) `%\*, %

: U! . `ž\*%&`- ' , ) ; , +\$)

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

7 ci fgY'8YHJ`g

7 fYX]hDc]bng`\*`

Gi a a UfmicZ\hY'7 ci fgY

H\]g'Wci fgY'dfcj ]XYg ]bffcXi Wc'fmi'Yj Y`h ]h]cb ]b'? cfYUb`Ub[ i U[ Y`Zfca`U'Wca`a i b]WU]j Y`UbX`fUg`!VUgYX UddfcUW`"H\Y`a YX]i a`cZ]bglfi W]cb ]g`9b[ `]g\`UbXz`k \YfYj Yf`Uddfcdf]UHYz? cfYUb`"H\fc i [ \`h]g'Wci fgYz mci`k ]`Wc]b]bi Y`hc`XYj Y`cd`VUg]Wwca`a i b]WU]j Y`g`\_`g`]b'? cfYUb`h\fc i [ \`j`Uf]ci g`gdYU`\_]b[ `UbX`k f]h]b[ UW]j ]h]Yg`z`k \]Y`Yi dUbX]b[ `mci`f`i bXYfg]h]bX]b[ `cZ\`ck`h\Y'? cfYUb`Ub[ i U[ Y`k`cf\_g`UbX`\`ck`h\Y'? cfYUb`k UmicZ`]Z'`Wc]b]fUg]k ]h`mci`f`ck`b`"H\Y`hcd]Mg`Wc]j YfYX`]b`h\Y`Wci fgY`]bW] XY`\`ck`mci`f`fUj Y`h`c`i`b]j Yfg]mz mci`f`ZJa ]mz`gh`Xmz`\`cV]Yg`UbX`Z]j ci f]h`gdc]f]g`z`XU]mUbX`k YY`\_YbX`UW]j ]h]Yg`z`ci gYz`Wc]h]b[ `UbX`Z]j ci f]h`Wc`ci fgz`UbX`ZY`]b[ g`UbX`Ya`c]h]cbg`z`UbX`g`l`cdg`UbX`[`ccXg`Zc`f`gU`Yz`UbX`k YU]h`Yf`UbX`W]a`UH`"K \YfYj Yf`Uddfcdf]UHYz`h\Y`Wci fgY`i`h]gYg`?!dcd`a`UH`f]U`g`UbX`f`W]Yf]fYU`]Uf`i`

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

%`7 ca`a i b]WU]j ]b'? cfYUb`i`g]b[ `k`Y`!fY\YUfgYX`Ub[ i U[ Y`cb`hcd]Mg`gi`W`Ug`fUj Y`]b[ `h`c`i`b]j Yfg]mz ZJa ]mz`YXi WU]cbz`XU]mUbX`k YY`\_YbX`UW]j ]h]Yg`z`UbX`]Yg`UbX`X]g`]Yg`&"`F`YUX`g`l`cf]h]Y]h]g`]b'? cfYUb`k \]W`Wc]b]U]b]g]a`d`Y`]bZ`fa`U]h]cb`UVci`h`h\Y`hcd]Mg`Wc]j YfYX`]b`h\Y`Wci fgY`" `K`f]h`g`l`cf]h]Y]h]g`]b'? cfYUb`i`g]b[ `k`Y`!fY\YUfgYX`Ub[ i U[ Y`h`c`Wc]b]Ym]g]a`d`Y`a`YggU[`Yg`("`9i`d`U]b`UgdY`W]g`cZYj Yf]m]Um`]Z'`]b'? cfYUz`]bW]`X]b[ `?`cfYUb`b`Ua`Yg`z`YXi WU]cb`g`m]g]h`a`z`\`ci`g]b[ `z`UbX`k YU]h`Yf`UbX`W]a`UH`

HYUW]b[ `G]fUH[ ]Yg`

F`U]h]cb`U`Y`.

?`cfYUb`G`h`X]Yg`U`h`l`BGK`d`fcj ]XYg`mci`k`]h`h\Y`c`ddc`f`h`b]m]h`c`XYj Y`cd`U`VU`UbW`c`Z`Wca`d`Y`h]b]h?`cfYUb`Ub[ i U[ Y`g`\_`g`UbX`\_`bck`YX[ Y`UbX`i`bXYfg]h]bX]b[ `UVci`h?`cfYU`"?`cfYUb`Ub[ i U[ Y`Wci`fgYg`UfY`cf[`Ub]gYX`]b]h`h`fY`Y`j`Y`g`.]b]ffcXi Wc'fmi'Yj Y`?`cfYUb`"

5F`HG`%`\*`\*`%]g`XYg][`bYX`h`c`\`Y`d`mci`h`c`VY`UV`Y`h`c`fU`\_`UbX`k`f]h`]b'?`cfYUb`UVci`h`mci`f`d`Y`f`g`c`b`U`]j`Yg`z`]b`d`U]h]W`Uf`z`mci`f`ZJa ]mz`gh`Xmz`\`cV]Yg`UbX`Z]j ci f]h`gdc]f]g`z`XU]mUbX`k YY`\_YbX`UW]j ]h]Yg`z`UbX`mci`f`l`ci`gYz`UbX`U`gc`h`c`XYj Y`cd`mci`f`gY`ZYI`d`fY`g]g]cb`]b'?`cfYUb`z`YgdY`W]U`m]UVci`h`mci`ZY`]b[ g`z`Ya`c]h]cbg`z`UbX`d`fY`Z`fY`b`W]g`"

H\YgY`fUg`\_`Uj`Y`VYY`b`gY`Y`W]YX`V`c`h`Z`c`f`mci`f`]a`a`YX]UH`d`fUW]W]Udd`]WU]cb`UbX`Z`c`f`mci`f`YUfb]b[ `UVci`h`h\Y`ZYU`h`fYg`c`Z`h\Y'?`cfYUb`Ub[ i U[ Y`Z`f`Z`h`fY`gh`Xm`H\Y`W]c]W`c`Z]`c`WU]V`i`Ufm]UbX`[`fUa`a`Uf`UfY`W]fY`Z`m]Vc]bg]XYfYX`]b`h`Y`fa`g`c`Z`h`Y`]b]hY[`f]m]c`Z`h`Y`7`ci`fgY`"H\Y`Y`bX`Y`ZY`W]j]g`fU]h`Yf`]Y`U`gYf]Yg`c`Z`c]Y`f`U`mg`h`U`h`UfY`V`c`h`i`b`Vc]bb`Y`W]YX`h`Y`a`gY`]Yg`UbX`WU]b`U`gc`Wca`V]bY`h`c`Z`fa`U`Uf[`Yf`z`a`cfY`Wca`d`Yi`UbX`]b]h`fUW]j`Y`d`U]h`f`b`"7`Ugg`f`c`c`a`U`W]j`]h]Yg`UfY`Z`Ua`YX`U`W`Wc`fX]b[ `m]h`c`hU`\_`Y`Z`U`X]j`Ub]U[`Y`c`Z`h`Y`gY`]b]h`fUW]j`Y`UbX`W`a`i`U]h]Y`X]a`Y`bg]cb`"

HYUW]b[ `G]fUH[ ]Yg`.

5g`k`]h`5F`HG`%`\*`\*\$`z`YUW]`c`Z`h`Y`YUfb]b[ `i`b]h]g`k`]V`Y`gh`X]YX`]b`Z]j`Y`\`ci`f`W]W]Y`U`h`c`!\`ci`f`Y`W]i`fY`z`U`h`c`!\`ci`f`h`h`c`f]U`UbX`Ub`UXX]h]cbU`cbY!\`ci`f`h`h`c`f]U`"b`h\Y`Y`W]i`fY`z`YI`d`Ub]U]h]cbg`c`b`UbX`d`fUW]W]g`Z`c`f`



5ggYgga Ybh

5ggYgga YbhHUg\_g`

5ggYgga Ybh	Ug_	K Y][ \h	8i Y'8UH	Gh XYbh@YUfb]b[ Ci hWta Yg'5ggYggYX
X!HYfa`	Wg!HYfa`HYgh			











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'ggi ddcfh4 i bgk "YXi "Ui "'Gi ddcfh  
\ci fg'UfY', .\$\$Ua '—%\$.\$\$da 'cb'k YY\_XUmg'UbX'-. \$\$Ua '—) .\$\$da 'cb'k YY\_YbXg'fl \*) 'XUmg'U'm'YUfl" Ʒmci  
UfY'i bUV'Y'hc'gi Va ]hmc i f'Ugg][ ba YbhiXi Y'hc'U'Zi '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 YbHg'k'hc  
]bWi XY'Ug'Yj ]XYbVW'hc'gi ddcfhmc i f'YI HYbg]cb'Udd'jW]h]cb" Ʒmci 'Ya U] '9I HYfbU'Gi ddcfhmc i 'k ]  
Ui 'ca UH]WU'm'fYW]j Y'U'h]W\_Yhbi a VYfž'Vi h]Zmci 'HY'Yd\cbY'mci 'k ]'b'YX'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]bg]UbVW'g'k \YfY'H'g ]g'bc]hdccg]V'Yž]hk ]'VY'gh'UH'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]bYj ]U'A ccX'Y. \H'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]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wc'dmf][ \hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'W'dhUV'Y'I gY'cZ I BGK '⇒H'F'Ygci f'W'g'Dc`]W'h
- VY'Uk UfY'cZ'Y'ghUbxUfXg'cZVY\Uj ]ci f'YI dY'W'X'cZYj Yfmcby']b'h'Y'I BGK 'W'a a i b]m
- 'cW'W'h'gYfj ]W'g'UbX'j]bZ'fa U]cb'UVci hi BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZ'Y'gY'UfY'Ug'k ]''VY'ZJa ]]Uf'hc'mci ž'c'h'Y'fg'k ]''VY'bYk "'; U]b]b[ 'U'gc`]X'i bXYfghUbx]b[ 'cZU''h'Y fY'U'Y'X'UgdY'W'g'cZ9@-G9'k ]''\Y'd'mci 'a U\_Y'h'Y'a cgh'cZ'mci f'gh X]Yg'Uhl BGK ""

[\h'hd.##ji V'Y'W'i \]X'Y'g"'\]VfUfm'i b'gk "Y'X'i "U'i #' \]g'Y'#J'V'ci h' \]g'Y](#)

