



# ARTS1120

9I dYf]YbW]b[ 'H\YUhfY

HYfa 'Cby''##'&\$&\$

7ci fgY'Cj Yfj JYk

'GHUZZ'7cbhUW'i8YHUJ`g'

'7cbj Ybcfg'

B Ua Y	9a Uj`	5j Uj'UVj]m	@cWjhcb	D\cbY
>cbUh\Ub`6c`Yb	^Vc`Yb4 i bgk "YXi "Ui	A cbXUmgž %%Ja !%da /cHYf hja Yg'Ya Uj`Zcf Uddc]bha Ybh	K YVghYf'&(*8	Ž*%&'-', ) \$+%-

GWXcc`7cbhUW'i8Zcfa Uhjcb

Fcca " %&ž`Yj Y`" 'F cVYfhK YVghYf'6i ]X]b[

D\cbY: f\$&ž'-', ) '(, ) \*

9a Uj]: [gUa 4 i bgk "YXi "Ui](#)

K YVghYf: [\hdg.#gUa "Ufng"i bgk "YXi "Ui](#)

H\Y'GWXcc`cZHAY'5fng'UbX'A YX]U'k ci `X`]\_Y'hc'F YgdYWwZ`mi5W\_bck`YX[ Y'hY'HfUX]hcbU`7i ghcX]Ubgž  
hY'6YXY[ U`fP'Ybg]b[ hcb`WJa di gLž; UX][ U`f7 ]mUbX'5fhv`'8Yg][ b'7 Ua di gYgE'UbX'hY'B [ i bbUk U`  
dYcd`Y'f5i ghfU]Ub`8YZYbVW': cfVW`5WUXYa m]b'7 UbVYffU'E'cZHAY`UbXg'k \YFY`YUWX`WJa di g'cZI`BGK`]g  
`cWJhYX"

7ci fgY'8YHJ]`g

7fYX]hDc]bHg`\*`

Gi a a UfmicZh\Y'7ci fgY

8c'mci`k Ubhlc`gYY`dYfZcfa UbW`"j Y`cb`gHJ[ Y3'8c'mci`k Ubhlc`Z]bX'ci h\ck`j]Hg'a UXY3'A UmVY'mci`j Y VYYb'a cj YX`VmUb`UWc`f`g`dYfZcfa UbW`Z`Ua UnYX`VmH\Y`VYUi`hmicZUb]a U[ Y`cf`WJi [ \hU[ `]a dgY`cZ gca Yh]b[ `VYmc`bX`k`cfXg`" `b`h\]g`Wci`fgY`mci`k`j`"Yi`d`cfY`\ck`Ufh]ghg`WYUHY`a YUb]b[ Z`"Yi`dYf]YbW`g`]b dYfZcfa UbW`"G]HJ[ ]b[ `gW]d]hg`Z`XYg[ ]b]b[ `gW`bYg`Z`XYj ]g]b[ `UW]cbg`-`mci`"YUfb`UVci`hH\Y`dfcW`gg`cZ a U\_]b[ `h\YUfY`UbX`\ck`h`c`di`hmi`f`ck`b`]XYUg`]b`c`d`fUW]W`"H\]g`]g`U`Z`ci`bXU]cbU`Wci`fgY`]b`dYfZcfa UbW UbX`dfcXi`W]cb`" `hcdYbg`i`d`cddcfi`b]h]Yg`Z`c`f`UW]b[ `Z`X]fYW]b[ `UbX`XYg[ ]b`Z`VUW`g]HJ[ Y`dfcXi`W]cb`Z`gW]dh k`f]h]b[ `UbX`fYj`]Yk`]b[ `h\Y`Ufhg`"

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

- %`8YgW]VY`UbX`]b]h]fdYhU`h\YUfY`Yj`Ybh]b`hYfa`g`cZ]hg'a`i`h]d`Y`g][`b]Z]b[ `Y`Ya`Ybhg`UbX`h\Y]f Wca`d`Yi`]b]h]fUW]cbg`i`g]b[ `gYa`]ch]W]hYfa`g`UbX`WcbW]d]hg
- &`5bU`mgY`fY`U]h]cbg\]dg`VY]k`YYb`fU]k`h\YUfY`Yj`Ybh]g`Z`h]i`hg`Z`d`fUW]W]g`UbX`h\Y`c]f]Yg`Z`UbX`fU]k`h\Y]f gcW]U`UbX`\]g]h]c]f]W]`Wcb]h]Y]h]g
- '`8]gW`gg`Z`Wca`d`UfY`UbX`Wcb]fU]gh]h\Y`U]a`g`UbX`UddfcUW]Yg`h`c`d`YfZcfa`UbW`a`U\_]b[ `UbX`Ui`X]YbW]fYW]d]h]cb`cZ`Y`m]d]fUW]h]cb]Yfg`UbX`h\Y`c]f]g]h]`]b`h]k`Ybh]Y]h]!W]bh]f]m]k`Yg]h]f]b`h\YUfY`UbX Wcb]h]a`d`c]f]m]d]YfZcfa`UbW
- ("`D`Ub]Z`a`U\_]`UbX`d`fYg]YbhU`d`YfZcfa`UbW`VUg]YX`cb`Wc`U`V`c]f]U]h]`Y`fYg]YUfW
- )`C`d`Y`f]U]h`Y`Z]Z]W]j`Y`m]b`h\Y`i`b]j`Yfg]m]Ybj`]f]c]b]a`Ybh]Ug`U`g]Y`Z`a`c]h]j`U]h]X`g]h]XYbh]cZ]h\YUfY`UbX dYfZcfa`UbW`

HYUW]b[ `G]h]fU]h[ ]Yg`

5F`HG%%&`\$`]g`U`Wc]fY`@Yj`Y`"H\YUfY`UbX`dYfZcfa`UbW`G]h]X]Yg`f]HDG]k`Wci`fgY`h\U]h]U]a`g`h`c`Z]Ja`]U]f]h]Y gh]XYbh]k`]h`h\Yfg]c`X`WcbW]d]hg`UbX`i`g]Y`Z`"UbU`m]h]W]`hYfa`g`" `h]d]f]c]j]XYg`h\Y`Vi`]X]b[ `V`c`W]g`Z`c]f`h\Y a`U`c]f]m]cZ]h\Y`Wci`fgYg`]b`h\Y`HDG`A`U`c]f]j]b]h]c]Xi`W]b[ `Z`bXUa`YbhU`"bck`YX[ Y`UbX`g\_]`g`]b[ `dYfZcfa`UbW UbU`mg]g/\]g]h]c]f]W]`Ygg]Um]k`f]h]b[ `cb`d`YfZcfa`UbW`d`fUW]h]cb]Yfg`UbX`d`UmgW]d]hg`]b`Wcb]h]i`h`UbX`[`fci`d] XYj`]g]YX`fY\YUfgU`UbX`di`V`]WdYfZcfa`UbW`d`fUW]W`"

5F`HG%%&`\$`]g`g]h]i`W]h]fYX`Ug`U`Wca`V]b]U]h]cb`cZU`k`YY`\_`m`YW]h]fY`UbX`U`k`YY`\_`m]h]h`c]f]U`k`h\YfY`X]g]W`gg]cb]Z`d`fUW]W]VUg]YX`UbX`gh]XYbh]YX`YUfb]b[ `dfcW`gg]Yg`h]U`Y`d`U`W`"H\Y`Y`W]h]fYg`UfY`fY`U]h]j`Y`m]h]YUW]Yf]YX`UbX`]b]h]c]Xi`W`WcbW]d]hg`Yi`d`cfYX`]b`d`fUW]W]`h]h`c]f]U`g`"H\Y`h]h`c]f]U`g`Z`c]g]h]f`g\_]`g`]b`g]Y`Z`X]fYW]h]X`UbX`[`fci`d] VUg]YX`YUfb]b[ `h]f]ci`[ \`U`g]Y]f]Y]g`cZ]gh]XYbh]YX`fY\YUfgU`g`Z`W`a`]b]U]h]b[ `]b`U`d`YfZcfa`UbW`d`fYg]YbhU]h]cb`Yj`Ybh`"

HYUW]Yf]YX`YUfb]b[ `UbX`Z]W]h]h]cb.`h\Y`Wci`fgY`Wcb]Ybc]f]h`[ Yh]Yf`k`]h`]b]j`]h]X`[`i`Ygh]YW]h]fYfg`UbX`h]h`c]fg]Z`k`]`cZ]Yf]h]YUW]Yf]YX`YUfb]b[ `h]f]ci`[ \`ci`h]h\Y`Wci`fgY`" @YW]h]fYg`UbX`h]h`c]f]U`g`k`]`XYj`Y`cd`mci`f`Z]Ja`]U]f]h]m]k`]h`h\Y`gi`V`YW]h]UbX`d]f]c]j`]X]Y`U`Z`ci`bXU]h]cb`Z`c]f`Z`f]h]Yf`gh]Xn]h]HYUW]b[ `g]f]U]Z]k`]`U`gc`Z]W]h]h]h] [`fci`d`d`fYg]YbhU]h]cb]g`Vm]gh]XYbhg`"

;`fci`d]VUg]YX`GY`Z]8]fYW]h]X`@YUfb]b[ `fG]8`@`" `b`d`fYdUfU]h]cb`Z`c]f`h\Y`";`fci`d`d`fUW]W]`D`fc`Y`W]h]gh]XYbh]k`]`VY`]b]j`c]j`YX`]b`a`UbU[ ]b[ [ `fci`d]`YUfb]b[ `UbX`d]f]c]V`Ya`!gc]j`]b[ `Vch`]b`UbX`ci`hcZ]h\Y`k`YY`\_`m`Wci`fgY`h]a`Y`g`c]h`"H\YfY`]g`bc`fYe]i`]fYX`fYUX]b[ `gYh]Z`c]f`h\YgY`Ugh]Z`ci`f`k`YY`\_`g`" `b`gh]YUX`Z`d`fYdUfU]h]c]f]m]k`c]f`\_`k`]`Wcb]g]gh]c`Z`]b]X]j`]Xi`U`fYg]YUfW]Z`[`fci`d`a`YY]h]b[ `g`UbX`#`f`[`fci`d`fY\YUfgU`g`"

# 5ggYgga Ybh

## 5ggYgga YbhHUg\_g`

5ggYgga YbhHUg_	K Y][ \h	8i Y'8UH	Gh XYbh@YUfb]b[ Ci hWta Yg'5ggYggYX
DYfZcfa UbW'5bU'mg]g`	&\$i	%+#\$' #&\$&\$'%%) - 'DA	%z&z)
9ggUmi	( \$i	\$+#\$ ( #&\$&\$'%%) - 'DA	&z ž)
DfUW]WJ'Dfc YW	' \$i	&+#\$ ( #&\$&\$' \$&.\$ \$'DA	( ž)
hXj ]Xi U`7cbf]Vi hcb'rc DfUW]WJ'Dfc YW	%\$i	&+#\$ ( #&\$&\$' \$' .' \$'DA	( ž)

## 5ggYgga Ybh8YHU]`g

5ggYgga Ybh% 'DYfZcfa UbW'5bU'mg]g

GHUfhXUH. 'Bch5dd`]WVY

@Yb[ h. '%\$\$\$'k cfXg

8YHU]`g. 'K f]h' U'%\$\$\$!k cfX'UbU'mg]g'cZcbY'fYWbhhYUhfY 'Yj YbhfZca 'hY`]ghcZhYUhfY 'Yj Ybhg'dfcj ]YXX  
]b'WUggE" F i Vf]W]bX]WUhb[ 'Yj Y`cZdYfZcfa UbW'U[ U]bghYUW'UggYgga YbhW]hYf]Užk f]hYb'Zcfa Uhj Y  
ZYXVUW\_zUbX'dYfWbhU[ Y'[ fUXY"

Hi fb]hb'gYhb[ . 'H\]g'Ugg][ ba Ybh]g'gi Va ]hX'hfci [ \ 'Hi fb]hb'UbX'ghi XYbhg'Xc'bcHgYY'Hi fb]hb  
g]a ]Uf]m

5ggYgga Ybh(. : ǝX]j ]Xi U`7cbhf]Vi hjcb'hc`DfUW]WU`Dfc`YVh

GHUfhXUH. `Bch5dd`]WUV`Y

8YHU]`g. : c`ck ]b[ `h\Y`dfYgYbhU]cb'cZ`h\Y`DfUW]WU`Dfc`YVh`mci `k ]`V`a d`YH`U`GY`Z`9j U`i U]cb`UbX`DYYf  
F`Yj ]Yk`Z`fa "`H\]g`k ]`j]bZ`fa `h\Y`UggYgga YbhicZ`mci f`V`bhf]Vi hjcb'hc`V`ch`h\Y`dfc`W`gg`UbX`dfc`Xi`V`h`cZ`h\Y  
DfUW]WU`Dfc`YVh`Z`hU`\_]b[ `]bhc`V`bg]XYfU]cb`mci f`Yj Y`cZ`U`h`Y`bX`Ub`W`zei U`]micZ`d`U`f]W`d`U`h`c`b`z`V`bhf]Vi hjcb  
hc`[ fci d`hUg`g`UbX`Z`bU`dfYgYbhU]cbz`UbX`Z`Z`a YbhicZ`[ fci d`fc`Y`"H\]g`]g`h\Y`Z`bU`UggYgga Ybh  
hUg`\_"F`i`Vf]W]bX]W]h]b[ `Yj Y`cZ`d`Y`f`Z`fa UbW`U[ U]bghYUW`UggYgga YbhW]h`f]U`z`k`f]h`b`gi`a`a`U`h]`Y  
ZYXVUW`z`UbX`d`Y`f`W`b`hU`Y`[ fUXY"

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



K YY_ ; . * '5df]'! '%\$'5df]'	@YWh fY	DfUWjWU`Dfc YWñ-F Y\YUfgU`g" F Yj ]Yk `fYgYUfW` 6Y[ ]b`fY\YUfg]b[ ]b`mci f`U`cWUHYX`j Ybi Y"
	Hi hcf]U`	DfUWjWU`Dfc YWñ-W`b]bi Y`fY\YUfg]b[ "DfYgYbhiUb UW]cb`"ghUbX`XYg][ b`W`bW`dhfc`mci f`Hi hcf/`A Uf_ A ]hXY`""
	5ggYgga Ybh	9ggUmXi YžHi YgXUmž`+`5df]`&\$&\$
K YY_- . % '5df]'! %+ 5df]'	@YWh fY	Di V`]W\c`]XUm`B c`YWh fY"
	Hi hcf]U`	DfUWjWU`Dfc YWñ-W`b]bi Y`fY\YUfg]b[ "GHU[ Y`U dfcj ]g]cbU`k U`!hfc[ [ \`cZhY`dYfZcfa UbW`f]hg gYei YbW`gžUffUb[ Ya Yb]g`UbX`YZYWgŁ`DfYgYbh mci f`V`cW_]b[ #W`cYc[ fUd\mih`mci f`Hi hcf`UbX`A Uf_ A ]hXY`""
K YY_ %\$ . &\$'5df]'! &( 5df]'	@YWh fY	DfUWjWU`Dfc YWñ-W`b]bi Y`fY\YUfg]b[ "
	Hi hcf]U`	DfUWjWU`Dfc YWñ-Z`"fY\YUfgU`cZW`a d`YH dYfZcfa UbW`-`dfYgYbh`mci f`gci bX#[ [ \h]b[ #YWX d`Ub`hc`mci f`Hi hcf`UbX`A Uf_`A ]hXY`""
K YY_ %% '&+'5df]'! &, 5df]'	@YWh fY	DfUWjWU`Dfc YWñ-HYWX`#fYgg`F Y\YUfgU`fI \$ a ]bi hYg`VYhk`YYb`- Ua !%da žhc`VY`UXj ]gYXŁ`UbX DYfZcfa UbW`f]YWh fY`g`chž`&da !`.' \$da`Ž`Vi`a`d!ci`h '`\$`a`]bi`hYgŁ`
	Hi hcf]U`	B c`h`hcf]U`g
	5ggYgga Ybh	DfUWjWU`Dfc YWñUbX`#X] ]Xi U`7`cbf]Vi h]cb`Xi Yž A`cbXUm`&+`5df]`&\$&\$

F Ygci fWg

DfYgWfjVYX F Ygci fWg

9I dYWfX fYgci fWg ZcfhY Wci fgY UfY Uj U]UVY Zca I BGK @jVfUfmj jU'A ccX'Y"

Gh XYbfg UfY YI dYWfX hc UfYbX tk c dYfZcfa UbWgžcbY cb WJa di gžcbY cZ WJa di gžUg'dUfhcZhY  
Wci fgY"8YHj]g UVci hdYfZcfa UbWg UfY dfcj jYX'cb'A ccX'Y"

Gi Va ]gg]cb`cZ5ggYgga YbhHUg\_g

Gi Va ]gg]cb`cZ5ggYgga YbhHUg\_g

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

≠mci`YbWci bHYf`U`dfcV`Ya`k`Yb`U`HYa`dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybh`h`fci`[`\`Hi`fb]h]b`z`d`YUgY`  
HY`Yd`cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`''`'`%cf`Ya`U]`h`Ya`cb`YI`HYfbU`HY`hgi`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`mY`UfL`≠mci`  
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhXi`Y`hc`U`ZU`hik`]h`Hi`fb]h]b`mci`a`Um`Udd`mi`Zc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`  
a`i`ghfY`hU]b`mci`f`h]W`Yhbi`a`VYf`Zca`9I`HYfbU`Gi`ddcfhfU`cb[`k`]h`Ubmc`h`Yf`fY`Yj`UbhXcW`a`Yb`hgL`hc`  
]bWi`XY`Ug`Yj`]XYbW`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb"≠mci`Ya`U]`9I`HYfbU`Gi`ddcfhmc`i`k`]"`

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

D`U[ ]Uf]ga `]g`i g]b[ `h`Y`k cfXg`cf]XYUg`cZc`h`Yfg`UbX`dfYgYbh]b[ `h`Ya `Ug`mci f`ck b" `h`WUb`hU`Y`a Ubm  
Zcfa gž`Zca `XY`]VYfU`h`W`Y`U`h]b[ `h`U`W`Y`X`Y`b`U`m`W`c`d`m]b[ `Zca `U`gci f`W`k ]h`ci h`U`W`\_`b`c`k `Y`X[ `Y`a `Y`b`f`

I BGK `[ fci dg`d`U[ ]Uf]ga `]b`h`h`Y`Zc`ck ]b[ `W`U`h`Y`[ cf]Yg.

7 cdm]b[ .`i`g]b[ `h`Y`g`U`a `Y`cf`j`Y`f`m`g]a ]U`f`k`cf`X`g`h`c`h`Y`cf][ ]b`U`h`I`h`cf]X`Y`U`k ]h`ci h`U`W`\_`b`c`k `Y`X[ ]b[ `h`Y`

- 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'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj ]ci f'YI dYW'X'cZYj Yfmcby`]b'h'Y'I BGK 'Wc a i b]m
- `cWJh'gYfj ]Wg'UbX' ]bZcfa Uh'cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh'YgY'UfYUg'k ]`VY'ZJa ]]Uf'hc'mci ž'c'h'Yfg'k ]`VY'bYk "; U]b]b[ 'U'gc`X'i bXYfghUbx]b[ 'cZU`h'Y fY'UH'X'UgdYW'g'cZ9@G9'k ]`Y'd'mci 'a U\_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hd. #gj V'YWf i \]XYg" \]VfUfm'i bgk "YXi "Ui #` \]gY#JVci h' \]gY](#)

5 WXYa ]WbZcfa Uhcb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[ `rc.