

ARTS3576

& %ghi7 Ybhi fmiGdU]b

HYfa 'C bY''##'&\$&%

7ci fgY⁻Cj Yfj]Yk

GHJZ7cbHJWh8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]lm	@cWJhjcb	D\cbY
8 f B UHJ`]U C fh]n 7 YVYf]c	b"cfh]nWYVYf]c4 i bgk "YXi "Ui	VmUddc]bha Ybhcb`m	cp,]pA	

GWXcc``7cbHJWhi±bZcfa Uh]cb

GWkcc`cZ<iaUb]hJYg'UbX'@Ub[iU[Yg

@c\\U||cb. G\\cc``C\\Z|\\\žA\cfj\Yb'6fck\b'6i]\X]b[\z'@\j\Y``&z'&),

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

D\cbY.'Ž*%'&'-',)'%*,%

: UI . 'Ž * %'&'-' ,) ', +\$)

9a U]`. '<u>\U`4 i bgk "YXi "Ui</u>

7ci fgY 8YW] g

7 fYX]hDc]bhg * *

Gi a a UfmcZh\Y'7ci fgY

±0.1h\]g`Wci fgYz`mci k]``YI d`cfY`a cXYfb`GdU]b`UbX`]hg`gcW]Yhm`UbX`W`hi fY"'±0.1h\]g`]bhYfX]gW]d`]bUfm`Wci fgYz`mci k]``YI Ua]bY`W ffYbh]ggi Yg`dYfhU]b]b[`hc`GdU]b`Zfca h\Y`dYfgdYWfj Y`cZ[YbXYf`ghi X]Ygž`\]ghcfmž`UbX gcW]U``UbX`W`hi fU``ghi X]Yg"'H\fci [\'h\Y`UbU`mg]g`cZZ]`a gža i g]Wž'hfUX]h]cbgža cXYfb`Ufh`UbX`gcW]U`a cj Ya Ybhgžmci k]``[U]b`Ub`i bXYfgHUbX]b[`cZh\Y`X]j YfgY`fUb[Y`cZgcW]U`ž'W`hi fU``UbX`dc`]h]WU`\W\U``Yb[Yg`UZYWf]b[`a cXYfb`GdU]b"

#b fYWbhmYUfgž'GdU]b`\Ug`VYYb']a a YfgYX']b'U'gYf]Yg'cZW\Ub[Yg'h\UhfYgi`hYX']b`k \Uhgca Y'gW\c`Ufg WU]a 'bc'VY'U'Wca d'YhY`mX]ZYfYbhWci blfm' #b 'Ygg'h\Ub'\U'ZU'Wbhi fmž'U'dfYXca]bUbhmfi fU`'gcW]Ylm\Ug VYYb'hfUbgZcfa YX']bbc'U'a U]b`mi fVUb'UbX'hYW\bc`c[]\W\'cbY''5'(\$!mYUf'X]\Wblcfg\]d'k Ug'gi dd`UbhYX'VmU ghfcb[ž'dfc[fYgg]j Y'XYa c\WfU\m'CbY'cZh\Y'k cf'Xfgi'a cgh\WblfU']gYX'ghUhYg'\Ug'VYYb'a UXY']bbc'cbY'cZh\Y'a cghXYW'bhfU']gYX'''5 'gcW]Ylmh\Uhk Ug']bhYbgY`mgYI i U``mfYdfYggYX'\Ug'VYWca Y'U'bchUV`m dYfa]gg]j Y'cbY'''H\YfY'\Ug'VYYb'U'fYj c'i hJcb']b'h\Y'fc'Yg'cZa Yb'UbX'k ca Yb'''GdU]b`\Ug'YI dYf]Yb\WX'U gi f[Y']b']a a][fUhJcb'h\Uh'\Ug'hi fbYX'h\Y'\ci bhfmž']b'h\Y'gdU\W'cZ'\ghU\Y'cZ'\ghU'ZYk 'mYUfgž']bhc'U'a i 'hJ!Yh\b]W gc\WYhm'' #b'h\]g'\WcbhYI hcZ\W\Ub[Yz'h\Y'hcd]\Wg'YI d`cfYX']b'h\Y'\wci fgY'k]`'']b\W XY'ZJa]'mžgYI i U']hmUbX [YbXYfza][fUhJcb'UbX'Yh\b]\W]mž']XYbhJmž'fY`][]cbz'Ub]a U`'f][\hgz\W`hi fU`'Uddfcdf]UhJcbz'UbX'dcdi 'Uf\W'hi fY''

7 ci fgY @YUfb]b[Ci hWca Yg

%" 8]gW gg 'h Y 'X]ZZYfYbh'mdYg c ZW `hi fU` dfUWf)W gž HYbXg 'UbX `]ggi Yg `]b 'a cXYfb 'GdU]b &" 5ddfU]gY 'h Y]a dcfHUbW 'c ZW `hi fU` dfUWf)W gž HYbXg 'UbX `]ggi Yg `]b 'a cXYfb 'GdU]b ' " =bj Ygh][UhY 'U dUfh]W `Uf 'W `hi fU` dfUWf)W ž HYbX 'UbX#c f ']ggi Y `]b 'h Y 'WcbhYI hc ZWcbhYa dc fUfmGdU]b

HYUW]b['GhfUhY[]Yg'

H\Y`WcifgY`]g`cf[Ub]gYX`UfcibX`WcfY`UbX`gidd`YaYbhUfmfYUX]b[g`UbX`UiX]c!j]giU``aUhYf]U`"`Mci`k]``VY YldYWhYX`hc`fYUX`h\Y`WcfY`fYUX]b[`UbX`kUhW\`h\Y`W]dg`]b`UXjUbW\žUhU`a]b]aia"`H\Y`a"'HUbX`l

Wf& [' Z^X]b[‰ cX]aWdcfUfmGdfYX 1```VY Uf ‰

5 hm/b XUb WY F Yei]fYa Ybhg

Ghi XYbhg`UfY`ghfcb[`mYbWcifU[YX`hc`UhhYbX`U```WUggYg`UbX`fYj]Yk ```YWhifY`hY`wcfX]b[g'' All for the following of the follo

7ci fgY GWX YXi `Y

<u>J]Yk 'WUgg'hja YHUV'Y</u>

H]a YtUV`Y

⊠ut⁄ent	H <u>m</u> dY_	7 cbhYbh	
K YY_'%'%) : YVfi Ufm!'%- : YVfi Ufm	abbanded ded	GdUb]g\`BUrjcbU``=XYbrjlmz`U`a mt\3	
K YY_'&.'&&': YVfi Ufm!'&*			‰

KYY \3 % \BUHcbU``¥YbI

FYgci fWfg

DfYgWf]VYX F Ygci fWYg

H\Y`BYk`GdUb]UfXgž&bX`9X]hjcb`Vm'>'<ccdYf

91 lfU fYUX]b[gž'Z]`a gž'UbX Ufh]\WYg'Uj U]`UV`Y']b 'A C C 8 @9

FYWca a YbXYX FYgci fWYg

 $: cf`UXX]h]cbU``V]V`]c[fUd\mfY`Yj\ Ubhhc`h\Y`Z]`a\ g\#cd]Wg`gh`X]YX`Wcbgi\ `hX]ZZYfYbhXUhUVUgYg`dYfh]bYbh\ hc`GdUb]g\Gh`X]Yg''$

Mci 'k]``'U`gc'Z]bX'U'kYU`h\'cZ]bZcfaUh]cb'cb'; cc[`Y'GW\c`Uf

7 ci fgY '9j U'i Uh]cb 'UbX '8 Yj Y`cda Ybh

7 ci fgYgʻUfYʻdYf]cX]\W\``mfYj]Yk YX`UbX`ghi XYbhg'`ZYYXVU_`]gʻi gYX`hcʻ]a dfcj Y`h\Ya "`: YYXVU_`]g

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

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

Image: Ybwei bhyfu'dfcv'ya k \yb'uhhya dhjb['hc'gi va]hmci f'Ugg][ba Ybhh\fci [\ 'Hi fb]h]bž'd'YUgY

Hy'Yd\cby'9| hy'fbu''Gi ddcfhcb'-',) '' ' ' %cf'Ya U]''h\Ya 'cb'Y! hy'fbu'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'fl *) 'XUmg'U'mYUft"'=Z'mci
UfY'i bUV'Y'hc'gi va]hmci f'Ugg][ba YbhXi Y'hc'U'ZJi 'hk]h\ 'Hi fb]h]b'mci 'a UmUdd'mZcf'Ub'Y! hy'bg]cbž'Vi hmci
a i ghfYhJ]b'mci f'h]W_Yhbi a VYf'Zfca '9! hy'fbU''Gi ddcfhfU'cb['k]h\ 'Ubmch\Yf'fy'Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj]XYbW' 'hc'gi ddcfhmci f'Y! hy'bg]cb'Udd']WUh]cb"'=Zmci 'Ya U]''9! hy'fbU''Gi ddcfhmci 'k]'`
Ui hca Uh]WJ'`mfYW']j Y'U'h]W_Yhbi a VYfZ'Vi h]Zmci 'hY'Yd\cbY'mci 'k]``bYYX'hc'gdYW]Z]WJ'`mUg_'Zcf'cbY''
Hi fb]h]b'U'gc'dfcj]XYg'i dXUhy'g'cb'h\Y]f'gmghYa 'ghUh' g'cb'Hk]hyf''

; YbYfU`mž'UggYgga YbhiHug_g'a i ghVY'gi Va]hhYX'Y`YVWfcb]\WJ``mij]U'Y]h\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ba Ybh''=b']bgHJb\W'g'k \YfY'h\]g']g'bchdcgg]V`Yž']hk]```VY'gHJhYX'cb'mci f'\\circ i fgY'g'A ccX`Y'g]hY'k]h\U`hYfbUh]j Y'gi Va]gg]cb'XYHJ]`g"

cfi]bZcfa Uhjcbicbi\ckihcigi Va]hUgg][ba Ybhgicbi]bYij]UiA ccXiY.i\hdg.#gh XYbhi bgk "YXi "Ui #\ck! gi Va]hUgg][ba Ybha ccXiY

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

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i=hWJbihU_Yia Ubm Zcfa gžZfca iXYi]VYfUhYiWXYUh]b[ihciUWW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hiUW_bck iYX[Ya Ybh'

IBGK [fcidg'd'U[]Uf]ga]bhc'h\Y'Zc``ck]b['WUhY[cf]Yg.

• i bXYfgHJbX'mci f'f][\hg'UbX'fYgdcbg]V]`]h]Yg'Ug'U'gh XYbh'Uhil BGK