Arms 11

RECORD TYPE: FEDERAL (NOTES MAIL)

CREATOR:"Watson, Harlan L (OES)" <WatsonHL@state.gov> ("Watson, Harlan L (OES)" <Wa

CREATION DATE/TIME: 5-MAR-2003 11:24:40.00

SUBJECT:: TCS Enviro-Sci - Defense of the Draft.htm

TO:"Gordon, Susan, C (OES)" <GordonSC@state.gov> ("Gordon, Susan, C (OES)" <GordonS
READ:UNKNOWN

TO:"Turekian, Vaughan C (OES)" <TurekianVC@state.gov> ("Turekian, Vaughan C (OES)"
READ:UNKNOWN

TO:"Patel-weynand, Toral, O (OES)" <Patel-weynandTO@state.gov> ("Patel-weynand, Tor
READ:UNKNOWN

TO:"Reifsnyder, Dan A (OES)" <ReifsnyderDA@state.gov> ("Reifsnyder, Dan A (OES)" <R
READ:UNKNOWN

CC:David Halpern (CN=David Halpern/OU=OSTP/O=EOP@EOP [OSTP])
READ:UNKNOWN

CC:Phil Cooney (CN=Phil Cooney/OU=CEQ/O=EOP@EOP [CEQ])
READ:UNKNOWN

CC:"'Richard.Moss@pnl.gov'" <Richard.Moss@pnl.gov> ("'Richard.Moss@pnl.gov'" <Richa
READ:UNKNOWN

CC:Kenneth L. Peel (CN=Kenneth L. Peel/OU=CEQ/O=EOP@EOP [CEQ])
READ:UNKNOWN

CC:"'Scott.Rayder@noaa.gov'" <Scott.Rayder@noaa.gov> ("'Scott.Rayder@noaa.gov'" <Sc
READ:UNKNOWN

CC:"'James.R.Mahoney@noaa.gov'" <James.R.Mahoney@noaa.gov> ("'James.R.Mahoney@noaa.
READ:UNKNOWN

TEXT:
<<TCS Enviro-Sci - Defense of the Draft.htm>>
- TCS Enviro-Sci - Defense of the Draft.htm========== ATTACHMENT 1 ====
ATT CREATION TIME/DATE: 0 00:00:00.00

TEXT:
<BASE HREF="http://www.techcentralstation.com/1051/envirowrapper.jsp?PID=1051-4
50&CID=1051-030403E">

<!-- main site poll code -->

<html>
<head>
<base href="http://www.techcentralstation.com/1051/">

```
<title>TCS: Enviro-Sci - Defense of the Draft</title>
<META NAME="robots" CONTENT="all">
<META NAME="title" CONTENT="TCS - Tech Central Station">
<META NAME="description" CONTENT="Where Free Markets Meet Technology.  Hosted b
y James K. Glassman">
<META NAME="keywords" CONTENT="free market, james glassman, technology, defense
, enviroment, science, CAFE, global warming, broadband, telecom, tauzin-dingell
, HR 1542, energy, Ken Adelman, Sallie Baliunas, missle defense, president bush
, government policy, politics, news, commentary, think tank, online magazine, d
iscussion, internet access, issues, anti-trust, regulation, investing, stock ma
rket, newsletter, jim glassman">
<META NAME="category" CONTENT="News & Media">
<META NAME="author" CONTENT="Tech Central Station">
<META NAME="reply-to" CONTENT="info@techcentralstation.com">
<META NAME="copyright" CONTENT="Tech Central Station L.L.C. - 2002">
<META NAME="rating" CONTENT="General">

<script language="JavaScript">
<!--

function MM_preloadImages() { //v3.0
  var d=document; if(d.images){ if(!d.MM_p) d.MM_p=new Array();
    var i,j=d.MM_p.length,a=MM_preloadImages.arguments; for(i=0; i<a.length; i+
+)
    if (a[i].indexOf("#")!=0){ d.MM_p[j]=new Image; d.MM_p[j++].src=a[i];}}
}

function MM_swapImgRestore() { //v3.0
  var i,x,a=document.MM_sr; for(i=0;a&&i<a.length&&(x=a[i])&&x.oSrc;i++) x.src=
x.oSrc;
}

function MM_findObj(n, d) { //v4.0
  var p,i,x;  if(!d) d=document; if((p=n.indexOf("?"))>0&&parent.frames.length)
 {
    d=parent.frames[n.substring(p+1)].document; n=n.substring(0,p);}
  if(!(x=d[n])&&d.all) x=d.all[n]; for (i=0;!x&&i<d.forms.length;i++) x=d.forms
[i][n];
  for(i=0;!x&&d.layers&&i<d.layers.length;i++) x=MM_findObj(n,d.layers[i].docum
ent);
  if(!x && document.getElementById) x=document.getElementById(n); return x;
}

function MM_swapImage() { //v3.0
  var i,j=0,x,a=MM_swapImage.arguments; document.MM_sr=new Array; for(i=0;i<(a.
length-2);i+=3)
   if ((x=MM_findObj(a[i]))!=null){document.MM_sr[j++]=x; if(!x.oSrc) x.oSrc=x.
src; x.src=a[i+2];}
}

function MM_goToURL() { //v3.0
  var i, args=MM_goToURL.arguments; document.MM_returnValue = false;
  for (i=0; i<(args.length-1); i+=2) eval(args[i]+".location='"+args[i+1]+"'");

}

function MM_openBrWindow(theURL,winName,features) { //v2.0
  window.open(theURL,winName,features);
}
```

```
function doSaveAs(){
if (document.execCommand){
 document.execCommand('SaveAs',false,'.html');
}else{
alert('Feature available only in Internet Exlorer 4.0 and later.');
}
}

function doBookmark(){
if ((navigator.appName == "Microsoft Internet Explorer") && (parseInt(navigator
.appVersion) >= 4)) {
window.external.AddFavorite( document.location.href, document.title);
}else{
if(navigator.appName == "Netscape")
alert('Feature available only in Internet Exlorer.  To bookmark this page in Ne
tscape press CTRL+D');
}
}
//-->
</script>
<style type="text/css">
<!--

.nounderline {text-decoration: none; }
A:hover {text-decoration: underline; color: #ff8600;}
input {  font-family: Geneva, Arial, Helvetica, san-serif; font-size: 10px; lin
e-height: 10px; font-weight: lighter}
select {  font-size: 10px; line-height: 10px; font-family: Geneva, Arial, Helve
tica, san-serif}

-->
</style>
</head>

<body topmargin=0 leftmargin=0 marginwidth=0 marginheight=0 link=#003366 alink=
#ff8600 vlink=#003366 bgcolor=white onLoad="MM_preloadImages('images/icon_main.
gif','images/icon_tech.gif','images/icon_defense.gif','images/icon_enviro.gif',
'images/icon_health.gif','images/icon_investing.gif','images/icon_energy.gif')"
>
<table cellpadding=0 cellspacing=0 width=780>
<tr height=82><td width=184><img src=images/logo_enviro.jpg width=184 height=82
 border="0"></td><td width=596 background=images/banner_back.gif valign=top><im
g src=images/spacer.gif height=1 width=596><br>

        <table cellpadding=0 cellspacing=0 width=596 border=0>
        <tr><td width=450 valign=top>

                <table cellpadding=0 cellspacing=0 width=450 border=0>
                <tr height=18><td colspan="12"><img src=images/spacer.gif height=18>
>
                <tr height=5><td colspan="12"><!-- <a href="javascript:;" onMouseOut
ImgRestore()" onMouseOver="MM_swapImage('home_rollout','','images/home_rollout.
gif',1)" onClick="MM_goToURL('parent','index.jsp');return document.MM_returnVal
ue"><img src=images/back_home.gif height=5 border="0"></a><img src=images/space
r.gif width=109 height=5 name="home_rollout"> --></td></tr>
                <tr height=15><td colspan="12"><img src=images/spacer.gif height
=15></td></tr>
                <tr height=5><!-- <td><img src=images/spacer.gif width=10 height
=5></td> -->
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onMouseO
```

```
wapImage('main_roll','','images/icon_main.gif',1)" onClick="MM_goToURL('parent'
,'index.jsp');return document.MM_returnValue"><img src=images/back_home_main.gi
f border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('tech_roll','','images/icon_tech.gif',1)" onClick="MM_go
ToURL('parent','tech.jsp');return document.MM_returnValue"><img src=images/nav_
back_tech.gif border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('defense_roll','','images/icon_defense.gif',1)" onClick=
"MM_goToURL('parent','defense.jsp');return document.MM_returnValue"><img src=im
ages/nav_back_defense.gif border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('enviro_roll','','images/icon_enviro.gif',1)" onClick="M
M_goToURL('parent','enviro-sci.jsp');return document.MM_returnValue"><img src=i
mages/nav_back_enviro_on.gif border="0" width="71" height="5"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
              <!--  <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()"
 onMouseOver="MM_swapImage('health_roll','','images/icon_health.gif',1)" onClic
k="MM_goToURL('parent','health.html');return document.MM_returnValue"><img src=
images/nav_back_health.gif border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('investing_roll','','images/icon_investing.gif',1)" onCl
ick="MM_goToURL('parent','investing.html');return document.MM_returnValue"><img
 src=images/nav_back_investing.gif border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('energy_roll','','images/icon_energy.gif',1)" onClick="M
M_goToURL('parent','energy.html');return document.MM_returnValue"><img src=imag
es/nav_back_energy.gif border="0"></a></td>-->
                </tr>
                <tr height=22>
                <td align=center><img src=images/spacer.gif width="23" height="
20" name="main_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td align=center><img src=images/spacer.gif width="13" height="
22" name="tech_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td align=center><img src=images/spacer.gif width="23" height="
22" name="defense_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td align=center><img src=images/spacer.gif width="14" height="
22" name="enviro_roll"></td>
                <td><img src=images/spacer.gif width=190 height=5></td>
              <!--  <td align=center><img src=images/spacer.gif width="18" heig
ht="22" name="health_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td align=center><img src=images/spacer.gif width="23" height="
22" name="investing_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td align=center><img src=images/spacer.gif width="17" height="
22" name="energy_roll"></td>
              -->        </tr>
                </table>

        </td><td width=146 align=right>
```

```
                <table cellpadding=0 cellspacing=4 border=0>
                <form name="Search" Action="search.jsp" Method="get">
                <tr>
                  <td>
                    <input type="hidden" name="appid" value="1051">

      <input type="text" name="searchstr" style="width:98;height:20;font-size:1
1;" value="Search" onClick="this.value=''"> <input type="image" src="image
s/arrow.gif" width=10 height=10>
                  </td>
                </tr>
                </form>

                <script src="helper/JavaScript/menu.js"></script>

                <form name="all_sections" action="" method="POST">
                <tr>
                  <td>
                    <select name="story" onChange="MM_jumpMenu('parent',this,0)
">
                      <option selected>TCS Sections</option>

                      <option value=tech.jsp>Tech</option>
                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-05310
2B>- Friday Fodder</option>

                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-12030
1D>- Today's Diary</option>

                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-02250
3E>- Superior Investing</option>

                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-02180
3A>- Big Shot</option>

                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-01310
3C>- Road Warrior</option>

                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-12050
2B>- Cyberlaw Maven</option>

                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-02270
3A>- Valley View</option>

                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-12310
2D>- Data Dump</option>

                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-12100
2E>- Point/Counterpoint</option>

                      <option value=techwrapper.jsp?PID=1051-250&CID=1051-12160
2E>- Digital Greenbook</option>



                      <option value=defense.jsp>Defense</option>
                      <option value=defensewrapper.jsp?PID=1051-350&CID=1051-02
0403A>- Pinkerton Space</option>

                      <option value=defensewrapper.jsp?PID=1051-350&CID=1051-11
```

```
1501B>- Big Shot</option>

                        <option value=defensewrapper.jsp?PID=1051-350&CID=1051-11
0501A>- E-Ring</option>

                        <option value=defensewrapper.jsp?PID=1051-350&CID=1051-020802B
 Fodder</option>

                        <option value=defensewrapper.jsp?PID=1051-350&CID=1051-11
1902E>- Point/Counterpoint</option>

                        <option value=defensewrapper.jsp?PID=1051-350&CID=1051-11
1102B>- Data Dump</option>

                        <option value=enviro-sci.jsp>Enviro-Sci</option>
                        <option value=envirowrapper.jsp?PID=1051-450&CID=1051-111
401A>- COP7</option>

                        <option value=envirowrapper.jsp?PID=1051-450&CID=1051-110
801A>- Kyoto</option>

                        <option value=envirowrapper.jsp?PID=1051-450&CID=1051-021
102D>- Pinkerton Space</option>




                    </select>
                  </td>
                </tr>
                </form>
                </table>

                        </td>
        </tr>
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rial, Helvetica, san-serif" size="1" color="white"><SCRIPT SRC="helper/JavaScri
pt/date_time.js">
</SCRIPT></font><img src=images/spacer.gif width=8></td></tr>
        <tr height=1><td colspan=2><img src=images/spacer.gif height=1></td></tr>
        </table>

</td></tr>
<tr height=1><td colspan=2 bgcolor=#CCD9E5><img src=images/spacer.gif height=1>
</td></tr>
</table>


<script language="JavaScript">
<!--
function MM_openBrWindowStay(theForm,theURL,winName,features) { //v2.0
  if( theForm.Password.value != "" )
  {
        theURL = theURL+"?Password="+theForm.Password.value;
        if( theForm.Email.value != "" )
                theURL = theURL+"&Email="+theForm.Email.value;
        if( theForm.actionreq.value != "" )
                theURL = theURL+"&actionreq="+theForm.actionreq.value;
```

```
  }
  else if( theForm.Email.value != "" )
  {
        theURL = theURL+"?Email="+theForm.Email.value;
        if( theForm.actionreq.value != "" )
                theURL = theURL+"&actionreq="+theForm.actionreq.value;
  }
  else if( theForm.actionreq.value != "" )
  {
        theURL = theURL+"?actionreq="+theForm.actionreq.value;
  }

  window.open(theURL,winName,features);
  return false;
}
function MM_openBrWindowStayNoPassword(theForm,theURL,winName,features) { //v2.
0
  if( theForm.Email.value != "" )
  {
        theURL = theURL+"?Email="+theForm.Email.value;
        if( theForm.actionreq.value != "" )
                theURL = theURL+"&actionreq="+theForm.actionreq.value;
  }
  else if( theForm.actionreq.value != "" )
  {
        theURL = theURL+"?actionreq="+theForm.actionreq.value;
  }
  window.open(theURL,winName,features);
  return false;
}
function MM_openBrWindowStayNoParms(theForm,theURL,winName,features) { //v2.0
  window.open(theURL,winName,features);
  return false;
}
//-->
</script>


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  </tr>
</table>

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    <td width="157">
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>
        <tr>
          <td background="images/host_bground_enviro.gif" align="right">
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              <tr>
                <td height="18"></td>
              </tr>


              <tr>
                <td>
```

```
                <div align="right">
                      <a href=indexwrapper.jsp?PID=1051-155&CID=1051-BIOBALIUNASSA
                <img src="images/biobaliunassallie.gif" width="108" height="1
39" border="0">
                      </a>
                </div>
              </td>
            </tr>
            <tr>
              <td height="6"></td>
            </tr>
            <tr>
              <td bgcolor="#000000" height="2"></td>
            </tr>
            <tr>
              <td height="6"></td>
            </tr>

            <tr>
              <td>
                <div align="right">
                   <table width="108" border="0" cellspacing="0" cellpadding=
"2">



                    <tr>
                      <td bgcolor="#003366">
                        <div align="center"><font face="Verdana, Arial, Helve
tica, sans-serif" size="1" color="#FFFFFF">Sallie Baliunas</font></div>
                      </td>
                    </tr>



                    <tr>
                      <td bgcolor="#336699"><font face="Verdana, Arial, Helve
tica, sans-serif" size="1" color="#FFFFFF">Enviro-Sci Host, TCS</font></td>
                    </tr>



                    <tr>
                                  <td><BR><a href="mailto:sbaliunas@techcentralstation
station.com?subject=Defense of the Draft">
        <img src="images/article_email_author.gif" width="24" height="15" border="0"
/a>
        <font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nounder
ne href="mailto:sbaliunas@techcentralstation.com, staff@techcentralstation.com?
subject=Defense of the Draft">Email Author</a></font></td>
                    </tr>



                  </table>
                </div>
              </td>
            </tr>
          </table>
```

```
          </td>
          <td bgcolor="#000000" width="1"></td>
        </tr>
      </table>
      <br>
      <br>

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 width="157" height="10" border="0"></a></td>
        </tr>
      </table>
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          <td valign=top width=145 bgcolor=#E5F3FF height="8">
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              <tr>
                <td valign=top height="6"></td>
                <td valign=top></td>
              </tr>

                <tr><td valign=top width=15><img src=images/bullet_link.gif></td>
                <td valign=top><font face=verdana,arial size=1><a class=nounderline
wrapper.jsp?PID=1051-250&CID=1051-030503A>Internet Tax Revolt</a></font></td>
                </tr>
                <tr><td colspan=2><img src=images/spacer.gif height=6></td></tr>

                <tr><td valign=top width=15><img src=images/bullet_link.gif></td>
                <td valign=top><font face=verdana,arial size=1><a class=nounderline
rowrapper.jsp?PID=1051-450&CID=1051-030503B>Truckin'</a></font></td>
                </tr>
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wrapper.jsp?PID=1051-250&CID=1051-030503D>Uncertain Utility</a></font></td>
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          <td width=1 bgcolor=#002C5B><img src=images/spacer.gif width=1></td>

          <td></td>
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8"></td>
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        <tr>
```

```
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        </tr>
      </table>



      <table width="157" border="0" cellspacing="0" cellpadding="0">
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ges/archive_articles_by_author.gif" width="157" height="10" border="0"></a></td
>
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                        <a class=nounderline href=envirowrapper.jsp?PID=1051-450&CID
rrying about El Nio</a></font></td>
                    </tr><tr><td colspan=2><img src=images/spacer.gif height=6></td></

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niversary Thoughts</a></font></td>
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              <tr>
                  <td valign=top width=15><img src=images/bullet_link.gif></td>
              <td valign=top><font face=verdana,arial size=1>
                        <a class=nounderline href=envirowrapper.jsp?PID=1051-450&CID
drogen Hopes</a></font></td>
                    </tr><tr><td colspan=2><img src=images/spacer.gif height=6></td></

            </table>
          </td>
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          <td width=1 bgcolor=#002C5B><img src=images/spacer.gif width=1></td>

          <td></td>
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8"></td>
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```

```
      </table>
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        <tr>
          <td></td>
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      <table width="157" border="0" cellspacing="0" cellpadding="0">
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               The Bush administration has proposed a common-sense review of th
e nation's climate research, one that could lead to a course correction for dir
ecting an area of scientific inquiry that has benefited from an infusion of ove
r $20 billion in funding in the last ten years. Considerable progress has alrea
dy been made toward understanding the complex system of climate change, but mor
e remains to be done to eliminate critical gaps in our knowledge.
<br>
<br>The
 administration issued a draft outline analyzing and proposing changes to the C
limate Change Science Program and welcomed all stakeholders - from scientists t
o the public - to discuss the future of climate research. The process is intend
ed to determine what areas of climate research are in need of greater funding a
nd support.
<br>
<br>The National Research Council organized a panel to review
the draft. The panel was critical of the draft, but rather than clarify the exi
sting state of climate science and research, the panel's members muddied the wa
ters.
```


On the One Hand, On the Other

On the one hand,
the panel members claimed that a human-made component of global warming has bee
n firmly established by the scientific community, thus obviating the administra
tion's call for research to reduce uncertainties over anthropogenic warming and
 bolstering claims that a significant reduction in greenhouse gas emissions is
necessary. But they also said, paradoxically, that significantly <I>more</I> re
search funding would be necessary to reduce the scientific uncertainties relate
d to human-made global warming.

One of the panelists criticized the ad
ministration's research priorities, telling the <I> New York Times</I> that res
earch "that would have been cutting edge in 1980 is listed as a priority for th
e future."

Despite this panelist's assertion, there are longstanding
improvements needed in basic climate science. For instance, a deteriorating and
 insufficient network for ascertaining surface temperature measurements must be
 strengthened; and understanding of the basic physics of convection that govern
s the transfer of large amounts of energy must be improved. Even after two deca
des of research in these areas, they remain at the leading edge of problems to
be solved to reduce uncertainty in forecasts of the human-made climate impact.

Moreover, the panel asserted that more is known about a human-made war
ming trend than the Bush administration will admit. For example, one panel memb
er, Michael Prather, announced that about half of observed warming trend of the
 last few decades is anthropogenic while the remainder is natural.

Th
is assertion leaves the impression that a human-caused global warming effect is
 understood thoroughly enough to differentiate the human warming trend from nat
ural causes, and that research on the matter could be concluded and funding red
uced.

Scientific claims about anthropogenic warming can be traced to
the conclusions listed in the U.S. National Assessment of the Potential Impacts
 of Climate Variability and Change and the United Nations' Intergovernmental Pa
nel on Climate Change 2001's Third Assessment Report. But these conclusions are
 uncertain because the main tools on which they are based are computer simulati
ons that have not reliably reproduced either past or current attributes of the
climate system. However, that is not surprising, since the natural influences
of climate are still difficult to model. Reducing uncertainty about natural var
iability remains a critical concern in distinguishing human and natural warming
 trends.

The panel's claims are thus confusing: While claiming we know
 enough to act on global warming by reducing greenhouse gas emissions, the pane
l also criticized the lack of a commitment to substantial new funding for impro
ving climate research.

We Know What We Don't Know

Th
e panel's complaints try to have things both ways: Either the science is comple
te (or complete enough) to move ahead with substantial cuts in carbon dioxide e
missions, or the climate forecasts are uncertain and require substantial advanc
es in order to give reliable forecasts one or two centuries into the future. In
 the first case, the committee is calling for reductions in fundamental researc

h in climate change, and a restructuring of energy policy in the U.S., with cos
ts that will be difficult to bear in the next decade. In the second case, the a
rgument for much more funding undercuts the previous assertion that the science
 is settled.

Implementing large and immediate cuts in greenhouse gas e
missions will be costly to human health, welfare and the environment. Waiting f
or two or three decades while the technology to reduce greenhouse gas emissions
 improves and becomes more affordable does not, according to computer simulatio
ns shown in the UN assessment, add significant warming at the end of 100 years.
 It would make greenhouse gas cuts easier and more affordable. Most important,
prioritized research in that interval may allow scientific progress in understa
nding climate physics and defining the extent of human-made climate change - wh
ich was the original point of the draft document.

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t=10></td>

        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bb
9f5ae5','maint','scrollbars=yes,width=340,height=500');">
It's all about money</a> <font color="#666666">by Mark Wilson</font></td>

        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
        <td width=10 valign=top> </td>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>
        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bb
bb686c','maint','scrollbars=yes,width=340,height=500');">
Re: It's all about <s>money</s> or something</a> <font color="#666666">by
Dano</font></td>
        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
        <td width=10 valign=top> </td>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>
        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bb
b56416','maint','scrollbars=yes,width=340,height=500');">
Re: Re: It's all about <s>money</s> or something</a> <font color="#666666"
>by Mark Wilson</font></td>
        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
        <td width=10 valign=top> </td>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>
        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bb
ca63f9','maint','scrollbars=yes,width=340,height=500');">
Re: Re: It's all about <s>money</s> or something</a> <font color="#666666"
>by Dano</font></td>
        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
        <td width=10 valign=top> </td>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>
        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
```

```
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bb
be5a40','maint','scrollbars=yes,width=340,height=500');">
Re: It's all about money</a> <font color="#666666">by Steve L.</font></td>

        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
        <td width=10 valign=top> </td>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>
        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bc
260c11','maint','scrollbars=yes,width=340,height=500');">
Re: Re: It's all about money</a> <font color="#666666">by Charlie McC.</fo
nt></td>
        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
        <td width=10 valign=top> </td>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>
        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bc
61b5ab','maint','scrollbars=yes,width=340,height=500');">
Re: Re: It's all about money</a> <font color="#666666">by freepete</font><
/td>
        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
        <td width=10 valign=top> </td>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>
        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bc
524042','maint','scrollbars=yes,width=340,height=500');">
Re: It's all about money</a> <font color="#666666">by freepete</font></td>

        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>

        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bc
8d9a4c','maint','scrollbars=yes,width=340,height=500');">
Global</a> <font color="#666666">by Mike Weatherford</font></td>
        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
```

```
        <td width=10 valign=top> </td>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>
        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3bc
c09947','maint','scrollbars=yes,width=340,height=500');">
Re: Global</a> <font color="#666666">by Steve L</font></td>
        </tr>
        </table>

        <table border="0" cellspacing="0" cellpadding="0" width="100%">
        <tr>
        <td width=10 valign=top><img src=images/feedback_arrow_right.gif width=9 hei
t=10></td>

        <td><font face="Verdana, Arial, Helvetica, sans-serif" size="1"><a class=nou
erline href="javascript:;" onClick="window.open('display_comment.jsp?msgid=f3be
661c17','maint','scrollbars=yes,width=340,height=500');">
Acting on imperfect information</a> <font color="#666666">by Dave Brown</f
ont></td>
        </tr>
        </table>



<!-- end of discussion comments -->
</td>
<td width=20 valign=top><img src=images/spacer.gif width=20></td>
</tr>
</table>

<img src=images/spacer.gif height=50>
<br>
</td>

<!-- start of third column -->
<td width=129 valign=top align=right>
<table width="100%" border="0" cellspacing="0" cellpadding="2">
<tr><td bgcolor="#005000"><img src=images/spacer.gif height=12></td></tr>
</table>
<table width="100%" border="0" cellspacing="0" cellpadding="0" bgcolor="#CCCCCC
" height="1">
<tr><td></td></tr>
</table>
<table cellpadding=0 cellspacing=0 border=0 width=121>
<tr><td colspan=3><img src=images/spacer.gif height=20></td></tr>
<tr><td colspan=3><img src=images/right_newsletter.gif></td></tr>
<tr><td width=1 bgcolor=#003366><img src=images/spacer.gif width=1></td>
<td width=119 bgcolor=#E5F3FF>


<form name="loginform" onsubmit="return MM_openBrWindowStayNoPassword(this,'pro
file.jsp','login','scrollbars=yes,width=340,height=500')" >
<input type="hidden" name="actionreq" value="login">
<table cellpadding=2 cellspacing=1 border=0>
<tr><td>
<font face=verdana,arial size=1>
Free weekly updates delivered to your inbox!
</font></td></tr>
<tr>
```

```
<td><font face="Verdana, Arial, Helvetica, sans-serif" size="1">E-Mail:</font><
/td>
</tr>
<tr>
<td><input name=Email type=text style="width:108;height:20;font-size:11;"></td>

</tr>
</table>
<img src=images/spacer.gif height=12><br>
</td><td width=1 bgcolor=#003366><img src=images/spacer.gif width=1></td></tr>

<tr><td colspan=3><input type=image  src=images/right_submit.gif></td></tr>
</form>
<tr><td colspan=3><img src=images/spacer.gif height=30></td></tr>



<tr><td colspan=3><img src=images/right_opinion.gif></td></tr>
<tr><td width=1 bgcolor=#003366><img src=images/spacer.gif width=1></td>
<td width=119 bgcolor=#E5F3FF><img src=images/spacer.gif width=119 height=1><br
>
<table cellpadding=2 cellspacing=1 border=0>
<tr><td colspan=2><font face=verdana,arial size=1>Do you think <a href=http://w
ww.techcentralstation.com/1051/envirowrapper.jsp?PID=1051-450&CID=1051-022003E>
hydrogen</a> is a safe and stable alternative to traditional fuels?<br></font><
/td></tr>

        <FORM NAME="OnlinePoll" ACTION="PollProcessor.jsp" METHOD="get">

        <INPUT TYPE=HIDDEN NAME="qID" VALUE="258">
        <INPUT TYPE=HIDDEN NAME="appID" VALUE="1051">
        <INPUT TYPE=HIDDEN NAME="ForwardPage" VALUE="envirowrapper.jsp?PID=1051-450&
D=1051-030403E">
        <INPUT TYPE=HIDDEN NAME="CookieName" VALUE="ECSPOLL">



        <tr><td><INPUT TYPE=RADIO NAME="Vote" VALUE="1"></td><td><font face=verdana,
ial size=1>Yes</font></td></tr>


        <tr><td><INPUT TYPE=RADIO NAME="Vote" VALUE="2"></td><td><font face=verdana,
ial size=1>No</font></td></tr>


        <tr><td><INPUT TYPE=RADIO NAME="Vote" VALUE="3"></td><td><font face=verdana,
ial size=1>Not Sure</font></td></tr>


</table>
<img src=images/spacer.gif height=12><br>
</td><td width=1 bgcolor=#003366><img src=images/spacer.gif width=1></td></tr>

<tr><td colspan=3><input type=image src=images/right_submit.gif></td></tr>
<tr><td colspan=3><img src=images/spacer.gif height=20></td></tr>
</form>
```

```
<tr><td colspan=3><img src=images/spacer.gif height=58></td></tr>
<form name="loginform" onsubmit="return MM_openBrWindowStay(this,'profile.jsp',
'login','scrollbars=yes,width=340,height=500')" >
<input type="hidden" name="actionreq" value="login">
<tr><td colspan=3><img src=images/right_preferences.gif></td></tr>
<tr><td width=1 bgcolor=#003366><img src=images/spacer.gif width=1></td>
<td width=119 bgcolor=#E5F3FF>
<table cellpadding=2 cellspacing=1 border=0>
<tr><td><font face="Verdana, Arial, Helvetica, sans-serif" size="1">E-Mail:</fo
nt></td></tr>
<tr><td><input name=Email type=text style="width:108;height:20;font-size:11;"><
/td></tr>
<tr><td><font face="Verdana, Arial, Helvetica, sans-serif" size="1">Password:</
font></td></tr>
<tr><td><input name=Password type=password style="width:108;height:20;font-size
:11;"></td></tr>
</table>
<img src=images/spacer.gif height=12><br>
</td><td width=1 bgcolor=#003366><img src=images/spacer.gif width=1></td></tr>

<tr><td colspan=3><input type=image src=images/right_submit.gif></td></tr>
<tr><td colspan=3><img src=images/spacer.gif height=30></td></tr>
</FORM>


</table>
<br>
<a href="/servlet/CMBannerServer?key=AAAGJsAANAAAISDAAG-AAAGI9AALAAAAADAAG-AAAG
I7AAJAAAAUDAAL" ><img src="/servlet/CMBinaryServer?cid=1051-EMS1" width=119 hei
ght=400 border=0 ></a>
<br>
<br>
</td>
</td>
</tr>
</table>


<table cellpadding=0 cellspacing=0 border=0 width=780>
<tr><td width=211><img src=images/spacer.gif width=211 height=1></td><td width=
569 align=right><font face=verdana,arial size=1 color=#003366> [ <a class=nound
erline href=tech.jsp>tech</a> ]     [ <a class=nounderline href=
defense.jsp>defense</a> ]     [ <a class=nounderline href=enviro
-sci.jsp>enviro-sci</a> ] <!--     [ <a class=nounderline href=h
ealth.jsp>health</a> ]     [ <a class=nounderline href=investing
.jsp>investing</a> ]     [ <a class=nounderline href=energy.jsp>
energy</a> ] --></font></td></tr>
<tr><td width=211><img src=images/spacer.gif width=211 height=2></td><td></td><
/tr>
<tr height=2><td colspan=2 bgcolor=#003366><img src=images/spacer.gif height=2>
</td></tr>
</table>

<table cellpadding=0 cellspacing=0 border=0 width=780 bgcolor=#E5F3FF>
<tr><td><font face=verdana,arial size=1>  &copy;

<SCRIPT LANGUAGE = 'JavaScript'><!--
function y2k(number) { return (number < 1000) ? number + 1900 : number; }
var today = new Date();
var year  = y2k(today.getYear());
```

```
document.write(' ' + year + ' Tech Central Station ');
//--></SCRIPT>

   :  <a class=nounderline href=indexwrapper.jsp?PID=1051-1
50>About Us</a>  :  <a class=nounderline href=indexwrapper.
jsp?PID=1051-151>Privacy</a>  :  <a class=nounderline href=
indexwrapper.jsp?PID=1051-152>Disclaimer</a>  :  <a class=n
ounderline href=indexwrapper.jsp?PID=1051-153>Toolbox</a>  : &nb
sp;<a class=nounderline href=indexwrapper.jsp?PID=1051-154>Links</a></font></td
><td align=right>
          <table cellpadding="2" cellspacing="0">
        <tr><td><img src=images/icon_home.gif></td><td><font face=verdana,arial
 size=1><a class=nounderline href=index.jsp>Home</a></font></td>
          <td><img src=images/spacer.gif width=12 height=8></td>
          <td><img src=images/arrow_up.gif></td><td><font face=verdana,arial si
ze=1><a href=#top>Top</a></font></td></tr>
</table>
</table>
<br>
</body>

</html>

================== END ATTACHMENT    1 ==================
```

```
<BASE HREF="http://www.techcentralstation.com/1051/envirowrapper.jsp?PID=1051-4
50&CID=1051-030403E">



<!-- main site poll code -->


<html>
<head>
<base href="http://www.techcentralstation.com/1051/">
<title>TCS: Enviro-Sci - Defense of the Draft</title>
<META NAME="robots" CONTENT="all">
<META NAME="title" CONTENT="TCS - Tech Central Station">
<META NAME="description" CONTENT="Where Free Markets Meet Technology.  Hosted b
y James K. Glassman">
<META NAME="keywords" CONTENT="free market, james glassman, technology, defense
, enviroment, science, CAFE, global warming, broadband, telecom, tauzin-dingell
, HR 1542, energy, Ken Adelman, Sallie Baliunas, missle defense, president bush
, government policy, politics, news, commentary, think tank, online magazine, d
iscussion, internet access, issues, anti-trust, regulation, investing, stock ma
rket, newsletter, jim glassman">
<META NAME="category" CONTENT="News & Media">
<META NAME="author" CONTENT="Tech Central Station">
<META NAME="reply-to" CONTENT="info@techcentralstation.com">
<META NAME="copyright" CONTENT="Tech Central Station L.L.C. - 2002">
<META NAME="rating" CONTENT="General">

<script language="JavaScript">
<!--

function MM_preloadImages() { //v3.0
  var d=document; if(d.images){ if(!d.MM_p) d.MM_p=new Array();
    var i,j=d.MM_p.length,a=MM_preloadImages.arguments; for(i=0; i<a.length; i+
+)
    if (a[i].indexOf("#")!=0){ d.MM_p[j]=new Image; d.MM_p[j++].src=a[i];}}
}

function MM_swapImgRestore() { //v3.0
  var i,x,a=document.MM_sr; for(i=0;a&&i<a.length&&(x=a[i])&&x.oSrc;i++) x.src=
x.oSrc;
}

function MM_findObj(n, d) { //v4.0
  var p,i,x;  if(!d) d=document; if((p=n.indexOf("?"))>0&&parent.frames.length)
 {
    d=parent.frames[n.substring(p+1)].document; n=n.substring(0,p);}
  if(!(x=d[n])&&d.all) x=d.all[n]; for (i=0;!x&&i<d.forms.length;i++) x=d.forms
[i][n];
  for(i=0;!x&&d.layers&&i<d.layers.length;i++) x=MM_findObj(n,d.layers[i].docum
ent);
  if(!x && document.getElementById) x=document.getElementById(n); return x;
}

function MM_swapImage() { //v3.0
```

```
  var i,j=0,x,a=MM_swapImage.arguments; document.MM_sr=new Array; for(i=0;i<(a.
length-2);i+=3)
   if ((x=MM_findObj(a[i]))!=null){document.MM_sr[j++]=x; if(!x.oSrc) x.oSrc=x.
src; x.src=a[i+2];}
}

function MM_goToURL() { //v3.0
  var i, args=MM_goToURL.arguments; document.MM_returnValue = false;
  for (i=0; i<(args.length-1); i+=2) eval(args[i]+".location='"+args[i+1]+"'");

}

function MM_openBrWindow(theURL,winName,features) { //v2.0
  window.open(theURL,winName,features);
}

function doSaveAs(){
if (document.execCommand){
 document.execCommand('SaveAs',false,'.html');
}else{
alert('Feature available only in Internet Exlorer 4.0 and later.');
}
}

function doBookmark(){
if ((navigator.appName == "Microsoft Internet Explorer") && (parseInt(navigator
.appVersion) >= 4)) {
window.external.AddFavorite( document.location.href, document.title);
}else{
if(navigator.appName == "Netscape")
alert('Feature available only in Internet Exlorer.  To bookmark this page in Ne
tscape press CTRL+D');
}
}
//-->
</script>
<style type="text/css">
<!--

.nounderline {text-decoration: none; }
A:hover {text-decoration: underline; color: #ff8600;}
input {  font-family: Geneva, Arial, Helvetica, san-serif; font-size: 10px; lin
e-height: 10px; font-weight: lighter}
select {  font-size: 10px; line-height: 10px; font-family: Geneva, Arial, Helve
tica, san-serif}

-->
</style>
</head>

<body topmargin=0 leftmargin=0 marginwidth=0 marginheight=0 link=#003366 alink=
#ff8600 vlink=#003366 bgcolor=white onLoad="MM_preloadImages('images/icon_main.
gif','images/icon_tech.gif','images/icon_defense.gif','images/icon_enviro.gif',
'images/icon_health.gif','images/icon_investing.gif','images/icon_energy.gif')"
>
<table cellpadding=0 cellspacing=0 width=780>
<tr height=82><td width=184><img src=images/logo_enviro.jpg width=184 height=82
 border="0"></td><td width=596 background=images/banner_back.gif valign=top><im
g src=images/spacer.gif height=1 width=596><br>
```

```
        <table cellpadding=0 cellspacing=0 width=596 border=0>
        <tr><td width=450 valign=top>

                <table cellpadding=0 cellspacing=0 width=450 border=0>
                <tr height=18><td colspan="12"><img src=images/spacer.gif height=18>
>
                <tr height=5><td colspan="12"><!-- <a href="javascript:;" onMouseOut
ImgRestore()" onMouseOver="MM_swapImage('home_rollout','','images/home_rollout.
gif',1)" onClick="MM_goToURL('parent','index.jsp');return document.MM_returnVal
ue"><img src=images/back_home.gif height=5 border="0"></a><img src=images/space
r.gif width=109 height=5 name="home_rollout"> --></td></tr>
                <tr height=15><td colspan="12"><img src=images/spacer.gif height
=15></td></tr>
                <tr height=5><!-- <td><img src=images/spacer.gif width=10 height
=5></td> -->
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onMouseO
wapImage('main_roll','','images/icon_main.gif',1)" onClick="MM_goToURL('parent'
,'index.jsp');return document.MM_returnValue"><img src=images/back_home_main.gi
f border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('tech_roll','','images/icon_tech.gif',1)" onClick="MM_go
ToURL('parent','tech.jsp');return document.MM_returnValue"><img src=images/nav_
back_tech.gif border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('defense_roll','','images/icon_defense.gif',1)" onClick=
"MM_goToURL('parent','defense.jsp');return document.MM_returnValue"><img src=im
ages/nav_back_defense.gif border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('enviro_roll','','images/icon_enviro.gif',1)" onClick="M
M_goToURL('parent','enviro-sci.jsp');return document.MM_returnValue"><img src=i
mages/nav_back_enviro_on.gif border="0" width="71" height="5"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
               <!--  <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()"
 onMouseOver="MM_swapImage('health_roll','','images/icon_health.gif',1)" onClic
k="MM_goToURL('parent','health.html');return document.MM_returnValue"><img src=
images/nav_back_health.gif border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('investing_roll','','images/icon_investing.gif',1)" onCl
ick="MM_goToURL('parent','investing.html');return document.MM_returnValue"><img
 src=images/nav_back_investing.gif border="0"></a></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td><a href="javascript:;" onMouseOut="MM_swapImgRestore()" onM
ouseOver="MM_swapImage('energy_roll','','images/icon_energy.gif',1)" onClick="M
M_goToURL('parent','energy.html');return document.MM_returnValue"><img src=imag
es/nav_back_energy.gif border="0"></a></td>-->
                </tr>
                <tr height=22>
                <td align=center><img src=images/spacer.gif width="23" height="
20" name="main_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td align=center><img src=images/spacer.gif width="13" height="
22" name="tech_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td align=center><img src=images/spacer.gif width="23" height="
22" name="defense_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
```

```
                <td align=center><img src=images/spacer.gif width="14" height="
22" name="enviro_roll"></td>
                <td><img src=images/spacer.gif width=190 height=5></td>
              <!--  <td align=center><img src=images/spacer.gif width="18" heig
ht="22" name="health_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td align=center><img src=images/spacer.gif width="23" height="
22" name="investing_roll"></td>
                <td><img src=images/spacer.gif width=21 height=5></td>
                <td align=center><img src=images/spacer.gif width="17" height="
22" name="energy_roll"></td>
             -->        </tr>
                </table>

        </td><td width=146 align=right>

                <table cellpadding=0 cellspacing=4 border=0>
                <form name="Search" Action="search.jsp" Method="get">
                <tr>
                  <td>
                    <input type="hidden" name="appid" value="1051">

      <input type="text" name="searchstr" style="width:98;height:20;font-size:1
1;" value="Search" onClick="this.value=''"> <input type="image" src="image
s/arrow.gif" width=10 height=10>
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801A>- Kyoto</option>

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        if( theForm.Email.value != "" )
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  }
  else if( theForm.Email.value != "" )
  {
        theURL = theURL+"?Email="+theForm.Email.value;
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  else if( theForm.actionreq.value != "" )
  {
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  }

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  return false;
}
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               The Bush administration has proposed a common-sense review of th
e nation's climate research, one that could lead to a course correction for dir
```

ecting an area of scientific inquiry that has benefited from an infusion of ove
r $20 billion in funding in the last ten years. Considerable progress has alrea
dy been made toward understanding the complex system of climate change, but mor
e remains to be done to eliminate critical gaps in our knowledge.

The
administration issued a draft outline analyzing and proposing changes to the C
limate Change Science Program and welcomed all stakeholders - from scientists t
o the public - to discuss the future of climate research. The process is intend
ed to determine what areas of climate research are in need of greater funding a
nd support.

The National Research Council organized a panel to review
the draft. The panel was critical of the draft, but rather than clarify the exi
sting state of climate science and research, the panel's members muddied the wa
ters.

On the One Hand, On the Other

On the one hand,
the panel members claimed that a human-made component of global warming has bee
n firmly established by the scientific community, thus obviating the administra
tion's call for research to reduce uncertainties over anthropogenic warming and
bolstering claims that a significant reduction in greenhouse gas emissions is
necessary. But they also said, paradoxically, that significantly <I>more</I> re
search funding would be necessary to reduce the scientific uncertainties relate
d to human-made global warming.

One of the panelists criticized the ad
ministration's research priorities, telling the <I> New York Times</I> that res
earch "that would have been cutting edge in 1980 is listed as a priority for th
e future."

Despite this panelist's assertion, there are longstanding
improvements needed in basic climate science. For instance, a deteriorating and
insufficient network for ascertaining surface temperature measurements must be
strengthened; and understanding of the basic physics of convection that govern
s the transfer of large amounts of energy must be improved. Even after two deca
des of research in these areas, they remain at the leading edge of problems to
be solved to reduce uncertainty in forecasts of the human-made climate impact.

Moreover, the panel asserted that more is known about a human-made war
ming trend than the Bush administration will admit. For example, one panel memb
er, Michael Prather, announced that about half of observed warming trend of the
last few decades is anthropogenic while the remainder is natural.

Th
is assertion leaves the impression that a human-caused global warming effect is
understood thoroughly enough to differentiate the human warming trend from nat
ural causes, and that research on the matter could be concluded and funding red
uced.

Scientific claims about anthropogenic warming can be traced to
the conclusions listed in the U.S. National Assessment of the Potential Impacts
of Climate Variability and Change and the United Nations' Intergovernmental Pa
nel on Climate Change 2001's Third Assessment Report. But these conclusions are
uncertain because the main tools on which they are based are computer simulati
ons that have not reliably reproduced either past or current attributes of the
climate system. However, that is not surprising, since the natural influences
of climate are still difficult to model. Reducing uncertainty about natural var

iability remains a critical concern in distinguishing human and natural warming
 trends.

The panel's claims are thus confusing: While claiming we know
 enough to act on global warming by reducing greenhouse gas emissions, the pane
l also criticized the lack of a commitment to substantial new funding for impro
ving climate research.

We Know What We Don't Know

Th
e panel's complaints try to have things both ways: Either the science is comple
te (or complete enough) to move ahead with substantial cuts in carbon dioxide e
missions, or the climate forecasts are uncertain and require substantial advanc
es in order to give reliable forecasts one or two centuries into the future. In
 the first case, the committee is calling for reductions in fundamental researc
h in climate change, and a restructuring of energy policy in the U.S., with cos
ts that will be difficult to bear in the next decade. In the second case, the a
rgument for much more funding undercuts the previous assertion that the science
 is settled.

Implementing large and immediate cuts in greenhouse gas e
missions will be costly to human health, welfare and the environment. Waiting f
or two or three decades while the technology to reduce greenhouse gas emissions
 improves and becomes more affordable does not, according to computer simulatio
ns shown in the UN assessment, add significant warming at the end of 100 years.
 It would make greenhouse gas cuts easier and more affordable. Most important,
prioritized research in that interval may allow scientific progress in understa
nding climate physics and defining the extent of human-made climate change - wh
ich was the original point of the draft document.

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Having it both ways</a> <font color="#666666">by Scot Wilson</font></td>
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Re: Having it both ways</a> <font color="#666666">by Dano</font></td>
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Re: Having it both ways</a> <font color="#666666">by Rick Marliave</font><
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Re: Re: Having a Market both ways</a> <font color="#666666">by Dano</font>
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Re: Re: Re: Having a Market both ways</a> <font color="#666666">by Rick Ma
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A lesson on Adam Smith</a> <font color="#666666">by Rick Marliave</font></
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Re: Re: Re: Re: Re: Gaming a Market both ways</a> <font color="#666666">by
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Re: Re: Having it both ways</a> <font color="#666666">by ejt</font></td>
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Re: Re: Re: Having it both ways</a> <font color="#666666">by Rick Marliave
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Re: Having it both ways</a> <font color="#666666">by Praxus</font></td>
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Re: Having it both ways</a> <font color="#666666">by Mark Wilson</font></t
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Re: Re: Having it both ways</a> <font color="#666666">by freepete</font></
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Re: Having it both ways</a> <font color="#666666">by cbsimkins</font></td>

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Re: Having it both ways</a> <font color="#666666">by freepete</font></td>

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How True</a> <font color="#666666">by Praxus</font></td>
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It's all about money</a> <font color="#666666">by Mark Wilson</font></td>

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Re: It's all about <s>money</s> or something</a> <font color="#666666">by
Dano</font></td>
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Re: Re: It's all about <s>money</s> or something</a> <font color="#666666"
>by Mark Wilson</font></td>
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Re: Re: It's all about <s>money</s> or something</a> <font color="#666666"
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Re: It's all about money</a> <font color="#666666">by Steve L.</font></td>

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Re: Re: It's all about money</a> <font color="#666666">by Charlie McC.</fo
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Re: Re: It's all about money</a> <font color="#666666">by freepete</font><
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Re: It's all about money</a> <font color="#666666">by freepete</font></td>

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Global</a> <font color="#666666">by Mike Weatherford</font></td>
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Acting on imperfect information</a> <font color="#666666">by Dave Brown</f
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<!-- end of discussion comments -->
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Free weekly updates delivered to your inbox!
</font></td></tr>
<tr>
<td><font face="Verdana, Arial, Helvetica, sans-serif" size="1">E-Mail:</font><
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<tr>
<td><input name=Email type=text style="width:108;height:20;font-size:11;"></td>

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hydrogen</a> is a safe and stable alternative to traditional fuels?<br></font><
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D=1051-030403E">
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<tr><td><font face="Verdana, Arial, Helvetica, sans-serif" size="1">Password:</
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:11;"></td></tr>
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<tr><td colspan=3><img src=images/spacer.gif height=30></td></tr>
</FORM>


</table>
<br>
<a href="/servlet/CMBannerServer?key=AAAGJsAANAAAISDAAG-AAAGI9AALAAAAADAAG-AAAG
I7AAJAAAAUDAAL" ><img src="/servlet/CMBinaryServer?cid=1051-EMS1" width=119 hei
ght=400 border=0 ></a>
<br>
<br>
</td>
</td>
</tr>
</table>


<table cellpadding=0 cellspacing=0 border=0 width=780>
<tr><td width=211><img src=images/spacer.gif width=211 height=1></td><td width=
569 align=right><font face=verdana,arial size=1 color=#003366> [ <a class=nound
erline href=tech.jsp>tech</a> ]     [ <a class=nounderline href=
defense.jsp>defense</a> ]     [ <a class=nounderline href=enviro
-sci.jsp>enviro-sci</a> ] <!--     [ <a class=nounderline href=h
```

```
ealth.jsp>health</a> ]     [ <a class=nounderline href=investing
.jsp>investing</a> ]     [ <a class=nounderline href=energy.jsp>
energy</a> ] --></font></td></tr>
<tr><td width=211><img src=images/spacer.gif width=211 height=2></td><td></td><
/tr>
<tr height=2><td colspan=2 bgcolor=#003366><img src=images/spacer.gif height=2>
</td></tr>
</table>

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<tr><td><font face=verdana,arial size=1>  &copy;

<SCRIPT LANGUAGE = 'JavaScript'><!--
function y2k(number) { return (number < 1000) ? number + 1900 : number; }
var today = new Date();
var year  = y2k(today.getYear());
document.write(' ' + year + ' Tech Central Station ');
//--></SCRIPT>

   :  <a class=nounderline href=indexwrapper.jsp?PID=1051-1
50>About Us</a>  :  <a class=nounderline href=indexwrapper.
jsp?PID=1051-151>Privacy</a>  :  <a class=nounderline href=
indexwrapper.jsp?PID=1051-152>Disclaimer</a>  :  <a class=n
ounderline href=indexwrapper.jsp?PID=1051-153>Toolbox</a>  : &nb
sp;<a class=nounderline href=indexwrapper.jsp?PID=1051-154>Links</a></font></td
><td align=right>
          <table cellpadding="2" cellspacing="0">
        <tr><td><img src=images/icon_home.gif></td><td><font face=verdana,arial
 size=1><a class=nounderline href=index.jsp>Home</a></font></td>
          <td><img src=images/spacer.gif width=12 height=8></td>
          <td><img src=images/arrow_up.gif></td><td><font face=verdana,arial si
ze=1><a href=#top>Top</a></font></td></tr>
</table>
</table>
<br>
</body>

</html>
```