

```
<BASE HREF="http://www.techcentralstation.com/1051/envirowrapper.jsp?PID=1051-450&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 by 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, missile defense, president bush, government policy, politics, news, commentary, think tank, online magazine, discussion, internet access, issues, anti-trust, regulation, investing, stock market, 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].document);
  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 Explorer 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 Explorer. 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=' '>&nbsp;  <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>
            <tr height=15><td colspan=2 bgcolor=#1C5586 align=right><font face="Geneva,
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>
```

```
<table width="780" border="0" cellspacing="0" cellpadding="0" bgcolor="#CCCCCC"
height="1">
<tr>
<td></td>
</tr>
</table>
```

```

<table width="780" border="0" cellspacing="0" cellpadding="0">
  <tr valign="top">
    <td width="157">
      <table width="100%" border="0" cellspacing="0" cellpadding="0" height=250
    >
      <tr>
        <td background="images/host_bgground_enviro.gif" align="right">
          <table width="135" border="0" cellspacing="0" cellpadding="0">
            <tr>
              <td height="18"></td>
            </tr>
            <tr>
              <td>
                <div align="right">
                  <a href=indexwrapper.jsp?PID=1051-155&CID=1051-BIOBALIUNASSA
39" border="0">
                    
                    </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="#B36699"><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">
  
  <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>

<table width="157" border="0" cellspacing="0" cellpadding="0">
  <tr>
    <td><a href="index.jsp"></a></td>
  </tr>
</table>
<table width="157" border="0" cellspacing="0" cellpadding="0">
  <tr>
    <td valign=top width=9 bgcolor=#E5F3FF></td>
    <td valign=top width=145 bgcolor=#E5F3FF height="8">
      <table cellpadding=0 cellspacing=0 border=0 width=100%>
        <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>
        <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
wrapper.jsp?PID=1051-250&CID=1051-030503D>Uncertain Utility</a></font></td>
        </tr>
        <tr><td colspan=2><img src=images/spacer.gif height=6></td></tr>

      </table>
    </td>
  <td valign=top width=8 bgcolor=#E5F3FF></td>
</table>

```



```

<td width=1 bgcolor=#D1E2F2><img src=images/spacer.gif width=1></td>
<td width=1 bgcolor=#002C5B><img src=images/spacer.gif width=1></td>
<td></td>
</tr>
</table>
<table width="157" border="0" cellspacing="0" cellpadding="0">
<tr>
<td></td>
</tr>
</table>
<table width="157" height="6" border="0" cellspacing="0" cellpadding="0">
<tr>
<td></td>
</tr>
</table>

<table width="157" border="0" cellspacing="0" cellpadding="0">
<tr>
<td><a href="author_search.jsp?Bioid=BIOBALIUNASSALLIE"></a></td>
>
</tr>
</table>
<table width="157" border="0" cellspacing="0" cellpadding="0">
<tr>
<td valign=top width=9 bgcolor=#E5F3FF></td>
<td valign=top width=145 bgcolor=#E5F3FF height="8">
<table cellpadding=0 cellspacing=0 border=0 width=100%>
<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 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></

<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
niversary Thoughts</a></font></td>
</tr><tr><td colspan=2><img src=images/spacer.gif height=6></td></

<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>
  <td valign=top width=8 bgcolor=#E5F3FF></td>
  <td width=1 bgcolor=#D1E2F2><img src=images/spacer.gif width=1></td>

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

  <td></td>
</tr>
</table>
<table width="157" border="0" cellspacing="0" cellpadding="0">
  <tr>
    <td></td>
  </tr>
</table>
<table width="157" height="6" border="0" cellspacing="0" cellpadding="0">

  <tr>
    <td></td>
  </tr>
</table>

<table width="157" border="0" cellspacing="0" cellpadding="0">
  <tr>
    <td><a href="search.jsp?appid=1051&searchstr=Global Warming"><img src
="images/archive_articles_by_issue.gif" width="157" height="10" border="0"></a>
</td>
  </tr>
</table>
<table width="157" border="0" cellspacing="0" cellpadding="0">
  <tr>
    <td valign=top width=9 bgcolor=#E5F3FF></td>
    <td valign=top width=145 bgcolor=#E5F3FF height="8">
      <table cellpadding=0 cellspacing=0 border=0 width=100%>
        <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 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></
          </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 href=envirowrapper.jsp?PID=1051-450&CID
lobal Warming Trends</a></font></td>
            </tr><tr><td colspan=2><img src=images/spacer.gif height=6></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
eat Alaska Shootout II</a></font></td>
        </tr><tr><td colspan=2><img src=images/spacer.gif height=6></td></

    </table>
</td>
<td valign=top width=8 bgcolor=#E5F3FF></td>
<td width=1 bgcolor=#D1E2F2><img src=images/spacer.gif width=1></td>

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

    <td></td>
</tr>
</table>
<table width="157" border="0" cellspacing="0" cellpadding="0">
    <tr>
        <td></td>
    </tr>
</table>

<br>
<br>

<br><br>

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

The

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

The National Research Council organized a panel to review the draft. The panel was critical of the draft, but rather than clarify the existing state of climate science and research, the panel's members muddled the waters.

On the One Hand, On the Other

On the one hand,

the panel members claimed that a human-made component of global warming has been firmly established by the scientific community, thus obviating the administration'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 *more* research funding would be necessary to reduce the scientific uncertainties related to human-made global warming.

One of the panelists criticized the administration's research priorities, telling the *New York Times* that research "that would have been cutting edge in 1980 is listed as a priority for the 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 governs the transfer of large amounts of energy must be improved. Even after two decades 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 warming trend than the Bush administration will admit. For example, one panel member, 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 natural causes, and that research on the matter could be concluded and funding reduced.

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 Panel on Climate Change 2001's Third Assessment Report. But these conclusions are uncertain because the main tools on which they are based are computer simulations 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 panel also criticized the lack of a commitment to substantial new funding for improving climate research.

We Know What We Don't Know

Th

e panel's complaints try to have things both ways: Either the science is complete (or complete enough) to move ahead with substantial cuts in carbon dioxide emissions, or the climate forecasts are uncertain and require substantial advances 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 research in climate change, and a restructuring of energy policy in the U.S., with costs that will be difficult to bear in the next decade. In the second case, the argument for much more funding undercuts the previous assertion that the science is settled.

Implementing large and immediate cuts in greenhouse gas emissions will be costly to human health, welfare and the environment. Waiting for two or three decades while the technology to reduce greenhouse gas emissions improves and becomes more affordable does not, according to computer simulations 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 understanding climate physics and defining the extent of human-made climate change - which was the original point of the draft document.

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Free weekly updates delivered to your inbox!

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<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>

```


