You held it to about 10, and your words were not only precise but deeply thoughtful and meaningful, and I think they’re an outstanding tribute to you in leaving this body. I want to thank you for your personal friendship to me and for your words of admonition to the many young men and women who have a little bit kinder, a little bit gentler.

I think it’s important for people to know—and you alluded to it—that, over a decade ago, your own wife died. The care giver for your wife, as she had cancer was Susan Sanfier, who became your friend and who became a friend of your family’s, and your own children encouraged you to, perhaps, pursue a relationship with her, and now she is your lovely wife. It has been a pleasure to see you so happy in these last years of public service, but we really appreciate your dedication and passion to serving this Nation. So thank you so much.

Madam Speaker, I would like to turn to another topic now. I sat in my office last night, looking at the pictures of the precious little children who were killed in Connecticut last Friday. What can you say? My heart breaks for them and their parents and for the people of Newtown. Perhaps the picture of little Caroline Previdi, one of the 6-year-old children who died, I’m sure she was a happy child, full of life’s potential just like my own little Caroline, who just turned 7 a few days ago. What can you say? It’s unthinkable that a person just like my own little Caroline, who died in Connecticut last Friday. What can you say? There are many children who died. I’m sure she was a happy child, full of life’s potential just like my own little Caroline, who just turned 7 a few days ago. What can you say? It’s unthinkable that a person just like my own little Caroline, who just turned 7 a few days ago.

In this town where we pride ourselves on rhetorical flourish, precision of thought, and volume of words, what can you say? What can you do other than stand in solidarity, in spirit, with the grieving families, and perhaps—just perhaps—hug those you lose a little bit better.

Now the Sandy Hook Elementary School tragedy is sparking a national debate about how and why this happened and about how it might have been prevented. That debate is understandable and needs to happen. In the coming weeks, Congress will be called on to react. Questions have already arisen about guns and school safety and emergency preparedness. But these concerns and debates may bypass altogether the deeper, more difficult issues involved, like what we grappled with after the tragic shootings of the young people at Columbine High School and on the Virginia Tech campus.

What we must do is be honest. Yes, there were guns involved. Yes, there are issues of school safety. Yes, there was a collapse of mental health infrastructure. But I have not heard a significant discussion of the broader cultural context in which this and other tragedies have happened.

All of these tragedies happened against a backdrop of a culture that increasingly devalues and degrades human life. Graphic acts of violence and inhumanity pervade popular culture, entertainment, and other venues that vie for our attention. In flipping through the channels recently, I saw on a “Law and Order” show, ironically, a man shot in an elevator and the blood splashing on his attorney. Seconds later, we move on to the next scene or to the next commercial without consequence.

We are supposedly entertained by this, and of course the producer gets the profit, but who really pays? Society grows increasingly numb to the increasing levels of wanton brutality, cruelty, and indignity, all celebrated for profit. Perhaps most of us can shake it off or just turn it off, but what happens when a person of limited stability sees these images over and over again? We preach tolerance for one another, but we fill our culture with grotesque and inhuman depictions and expect that there will not be consequences.

Madam Speaker, I am sure there are any number of Ph.D.s out there who will somehow refute that there is a correlation between this aggressive assault upon images of human beings and the recurring violence that is all around us. Instead, we want simple answers and quick fixes, and then we’ll just move on.

I suggest that we look inward to re-examine what we mean to be in community, in a common bond with neighbors, where persons are not in isolation, where check mechanisms are so ordinary that persons are not simply roaming around, disconnected from communities of concern, family life, mental health treatment, or swift enforcement action, whatever is needed. A single and simple policy response from Washington cannot fix this. We all want to have a more caring and supportive society, but I think we are in front of the telephone and a million, a million and a half people out there are watching us. Just who are we? So I thought I would spend just a moment doing what I probably should’ve been doing 20 years ago and kind of introduce myself.

I was born in 1926. If you are doing some quick math, yes, that means I’m in my 87th year. Our family hardly knew that there was a Great Depression when we were just as poor before the Depression as we were during the Depression.

I was the first member of my immediate family to graduate from college. I wanted to be a medical missionary, and so I was studying theology and I was taking science courses so that I could go to medical school. And I had a really, really good science teacher, and I took all of the courses he offered and ended up more so than pre-med, and I would’ve gone on from college. I not only had a degree, a major in the Bible and a minor in homiletics—that’s a degree in theology—I also had a major in biology and a minor in chemistry. And I had decided not to go to medical school, and I wanted to go into the ministry; but I was 21 years old and I looked 17 and I wasn’t married, and you don’t have a big, immediate, bright future in the missionary looking 17 and not being married and so they advised me to come back until I got older and got married.

And so I went to graduate school, and I got a master’s and a doctorate and...
committed myself to being a very serious basic researcher. I taught medical school for 4 years. I worked at the National Institutes of Health. I went to a lot of professional scientific meetings. I have about 50 papers in the basic scientific literature. And I've set in motion some laws, and don't be green. I was building solar houses back in the late seventies and early eighties and selling them for, I remember, about 300 dollars per square, so in desperation, they looked at, gee, what did work when our kids graduated from school and could read. The 'McGuffey Reader.' Some of our schools went back to that because we were graduating kids from college who had no law respecting an establishment of religion. The separation of church and state, it's in the Constitution of the USSR. It's not in our Constitution. The separation of church and the tyranny of the crown. If you think about it, they all came from countries that had a king or an emperor, and so there was the tyranny of the crown. And so they said something very simple and very straightforward, that they'd make no law establishing an establishment of religion. The state cannot establish a religion; otherwise, leave men free to worship as they please. I have no idea how that's gotten wrought into this idea that you can't be religious, that government has to be totally separated from religion.

By the way, that clause is in the Constitution. The separation of church and state, it's in the Constitution of the USSR. It's not in our Constitution. Well, the second thing I came here to the floor to talk about when the debate was raging was the ethical embryonic stem cell procurement. Remember when George Bush came to office, there was a lot of research in stem cells, and we'd been using adult stem cells, but experts in the area—and I'm probably the only Member of Congress who has had a degree in advanced embryology, and I've studied human embryonic stem cells. And the experts all believed that there ought to be more usefulness of embryonic stem cells than
adult stem cells simply because they’re totipotent; they will develop into anything and everything the body needed. An adult stem cell that’s already kind of differentiated, you’re somewhat limited in what you can do with it.

But because embryonic stem cells, they were destroying the embryo. Now, every year there’s something like 40,000 embryos that are just discarded because the owners don’t want them anymore and they won’t pay for keeping them. They’re frozen in liquid nitrogen and discarded.

And the argument was you can take one of these discarded embryos, it’s going to be discarded anyhow, and you can crush it and you can get the stem cells from it. But before you do that, you look at it under the microscope, and there you see it, living tissue. Gee, that might be the next Albert Einstein.

When you’re talking about them collectively, 40,000, it’s easy just to say they’re going to be discarded; when you realize that at one under your microscope, a unique human being if you just give it the chance to be implanted and to grow in the womb.

But I knew that we could get cells from these early embryos and not hurt the embryo at all. How did I know that? How was I so sure of that? Well, you can take half the cells from an early embryo and it goes on to develop a perfectly good child, infant. How do I know that? Because the other half of those cells went on to produce another perfectly good twin.

In every case of twins that you see, identical twins that you see, half of the cells were taken from the embryo, and the other half went on—the Chairman of the President’s Commission on Ethical Embryonic Stem Cells was an identical twin, and I asked him if he felt any less of a person because he was only half a person, because he’s only half the embryonic cell. It’s a perfectly silly question, of course. But then he said, Gee, that is a silly question, isn’t it?

And I said, But that’s what people are saying; if you are going to take a cell or two from an early embryo, somehow it’s going to be less of a person when it develops.

I worked 5 years, nearly 6 years with the White House, with the Council of Catholic Bishops, with the right-to-life community, and we developed a bill that was unanimously passed in the Senate, and it failed on a technicality in the House. It came up on suspension. It got way more than half the votes, but not two-thirds of the vote.

So Bush gave it the effect of law because he supported it by making it an executive order. And the first executive order of this administration, the hand had hardly come off the Bible when our new President reversed that executive order. Had it become law—

And people ask me what was the greatest disappointment of my 20 years, and that is that my bill passed unanimously by the Senate couldn’t become law because it would still be because you would have to overcome a veto, and we would not have two-thirds of the votes to do that.

Well, a third thing that I came here to the floor to talk about was electromagnetic pulse. I had no idea when I first learned about this, but I called my friend Tom Clancy and he knew that he had written a book where this was a scenario in his book, and he does really good research. So I asked him about EMP. He said, If you read my book, you know all that I know about it. Let me read you a quote to the smartest man hired by the U.S. Government.

That’s a tall order because we hire a lot of people, but in his view, that was a Dr. Lowell Wood from Lawrence Livermore. And this was pre-cell phone days. Remember the pagers?

I paged Lowell Wood. He was supposed to be in California, Lawrence Livermore. Went up to the satellite and down, and he was within Washington and he got it, and within an hour he was sitting in my office and we had no idea what would happen. It produced an electromagnetic pulse that caused a lot of disturbances in Hawaii, which was about 800 miles away.

The Soviets had a lot more experience than we did. They had developed an EMP weapon, a single, large nuclear—oh, I shouldn’t say that because it doesn’t have to be a large bomb because it could be a relatively small bomb that is EMP-enhanced.

A single appropriate bomb detonated 300 miles high over Nebraska or Iowa would blanket our whole country, and if the EMP radon was robust enough, it would bring down all of our microwave electronics. The grid would be down for a year or more, and your car wouldn’t run. And there have been a couple of books written on that subject. One I would recommend that’s an easy read and a very well-researched book—and I commend Newt Gingrich, he brought the author to my office, and he mentioned this on the campaign trail.

Thank you, Newt.

This is Bill Forstchen’s book called “One Second After.”

I came to my office one day and there was a big book on my desk and there was a handwritten note in it. It was from a Dr. Lowrie. He was retired, a Ph.D. electrical engineer in his hospital room recovering from cancer surgery, and he was surfing the television and he happened on C-SPAN and I was giving one of the half dozen talks that I’ve given on EMP, and he listened to it and got turned on and did a lot of research and wrote a book, about 700 pages.

I didn’t think I could read a novel that long. It was so captivating. I read it, and it’s called “The Satan Legacy.”

The Satan was a big SS-18. It was one of the Soviet missiles with 10 nuclear warheads. And the story had one of them missing when they transferred from the Ukraine to Russia.

Now we know that several other things could also bring down the grid. One of those is cyber. This is a whole new warfare that we’ve been in, and we hardly knew about it, but there it was raging. An appropriate cyberattack could bring down our grid.

And something that will bring down the grid—this is not a matter of when—and that’s a giant solar storm. The only question is when will the next one come. And if we are not prepared for it—and we are not now—and if we do not prepare for it, it will bring down the grid.

And McClelland, the top person in that part of FERC, sat in my office and said that the grid would be down for a year and a half to 2 years.

That’s a very long time to hold your breath. And there’s another thing that could bring down the grid, and that is a terrorist attack. If you knew what the important substations were and you knew which insulators to take out, it wouldn’t take more than a dozen or so people with a .22 rifle.

Now why, when the grid goes down, can’t you bring it back up? That’s because in all of these instances, if there’s going to be surges of electricity that blow the major transformers. They simply won’t melt down. We have a few spares, but a very inadequate number of spares. We don’t make them in our country. You just order them. There’s none available to order, by the way. You order one and they will build it for you. And it takes a year, year-and-a-half to 2 years to build one. And we don’t build them in our country.

So I’m pleased that my efforts—which I started here on the floor talking about EMP—have resulted in a recognition that this is something we really need to deal with.

There’s a fourth thing that I came to the floor to talk about, and I will spend the next few minutes of our time here together this evening talking about that, and that is energy. I have been to the floor, I think, 52 times; and most of those times I came here, I talked for a full hour. I was talking about not just energy generically, but a specific type of energy, and that is liquid fuels.

We have the EMP Commission, which functioned for four terms, that is 8 years. They have gathered classified and unclassified reports, and I would recommend that you get one of their unclassified reports.

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of energy. It’s not energy. It’s the way you carry energy. That’s electricity.

We shouldn’t have any deficit of electricity with more nuclear power plants. Yes, they are safe. We’ve never lost a person operating them. With more wind machines, with more solar, with more micro-hydro, with more true geothermal, we need another word for these heat pumps that are looking not at the zero cold and trying to heat that up. So make it cooler or heat your house up in the wintertime or trying to heat up hot air to make your house cooler in the summertime.

If you’re looking at 56 degrees here, that’s a whole lot more efficient. We call that geothermal. We’ve got to change another word for that, because true geothermal is tapping into the molten core of the Earth. That, for all practical purposes, is infinite and will be there for a very, very long time. With these sourcebooks that was just audacious and seemingly ridiculous. He told us something that was just audacious and seemingly ridiculous. He said that—"I think the energy—" and then he became an icon—his name was M. King Hubbert. He gave us what we think will be recognized as the most important speech of the last century. I believe that speech was the 8th day of May in 1956. And he gave that speech in San Antonio, Texas. He was an oil geologist. He gave it to a group of oil people.

As you look back in your history books, you will find that at that time we were pretty good at oil—gas too. We produced more oil. We used more oil. We’re still doing that. We’re using more oil than anybody else. And we sold more oil and exported more oil than any other country in the world. And M. King Hubbert told them something that was just audacious and seemingly ridiculous. He said, "Notwithstanding the fact that we are so big in oil today, in just 14 years the United States will reach its maximum oil production. And no matter what we do, that oil production in the United States will go down.

How can he make that kind of a prediction? He made it because when he looked at an individual oil field, he saw that the exploitation of that field produced kind of a bell curve. Sometimes a little distorted bell curve, but kind of a bell curve. When you first started drilling, it really came out. And then you reached a peak and then it was harder to get it out until finally it tailed off and you’d gotten all you could out of the well.

So he rationalized that if he could add up all the little fields in the United States, he could get all the little bell curves and add them to get big bell curves. When he did that, it reached its maximum in 1970. And so he made that prediction in 1956. Right on schedule, in 1970, we reached our maximum oil production. And no matter what we’ve done since then, like building more oil wells in all the rest of the world put together, for instance, today we produce about half the oil we produced in 1956.

The second speech—and I don’t know if these two men even knew each other—was given by Hyman Rickover just about a year later. It was the 14th day of May, 1957. It was a speech given in St. Paul, Minnesota. And you can pull this one up. It was lost until a few years ago. And for Rickover and energy speech and it will come up. I think you will agree with me that it was probably the most insightful speech in the last century.

And in it he noted that oil is finite. He said it. He didn’t think it was that long; those are his numbers—"in the 8,000-year recorded history of man, the age of oil will be but a blip. We’re behaving as if it’s going to be forever. He called it this "Golden Age." Please, please Google for Rickover and energy speech and pull it up. I think you’ll be fascinated by the speech.

One of the things he said in it was how long it lasts is important in only one regard: the longer it lasts, the more time we have for an orderly transition to other sources of energy. That’s not quite what we’re doing. And I’m not sure that he would agree that drill, baby, drill is an orderly transition to other sources of energy.

I have just the probably hundred-or-more charts that I’ve used from time to time in talking about this subject—and the subject is peak oil.

Let me show you these two charts. This is a chart that ends in 2008, and it has the oil known by the two major entities in the world that have the most credibility in this—the EIA, the Energy Information Administration, and the IEA, the International Energy Association, which is a creature of the OECD in Europe. And these were their two curves. See they’re leveling out up there. The headline was: "Peak Oil: Are We There Yet?"

And I want to show you another chart. And you can find these curves put up by the two major entities in the world that, oil production in the United States will go down.

How can he make that kind of a prediction? He made it because when he looked at an individual oil field, he saw that the exploitation of that field produced kind of a bell curve. Sometimes a little distorted bell curve, but kind of a bell curve. When you first started pumping, it really came out. And then you reached a peak and then it was harder to get it out until finally it tailed off and you’d gotten all you could out of the well.

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The different colors here, natural gas, liquids on top—they have that growing. That will grow. Nonconventional oil, that’s from the oil shales. That’s going to grow. The dark red there really should be a part of the blue down here. It’s just enhanced oil recovery, squeezing a little more out of the fields we’re pumping from, like putting live steam down there and CO2, and so forth to force it out. This is the fields we’re now pumping, and they’re admitting that we’re reaching peak oil, plateau here, because they have them tailing off.

Now, this chart was done in 2008, and the one below it was done for 2010. I’ll come to that in just a moment.

In order to keep the total liquids going up, you notice what they’ve done is projected two huge fields here, that by 2030 they said a fourth of all the liquids we’re getting, only a fourth of it will come from the fields we’re now pumping, that three-fourths of it will come from something else. And half of the total is going to be from fields that were unknown something from now. That’s a pretty tall order.

Then, in 2010 they did this other curve down here, and they have reversed the two on top here. And different colors. But they’re the same thing. And the one on top here is dark red down with the oil fields that we’re now pumping. And notice this goes to 2035. Up here, by the way, they were going to peak at 112 million barrels a day. Now we’re stuck at 84 million billion barrels for 5 years. They have it going up to 112. Two years later, reality is setting in. Now it goes up to only 96. And they go out 5 years further to 2035. Notice the precipitous drop-off in the fields that we’re now pumping.

Now, we have some irrational exuberance, as Alan Greenspan would define it, in our country about our ability to get some additional gas and oil out of things like the Marcellus shales and the fields out in the West by horizontal drilling and fracking; and these are represented in these two curves here. I think that one can say, in analyzing history, with considerable confidence that these two wedges here will not occur. By the way it’s 600,000. It sounds like a lot, doesn’t it? 600,000 barrels.

We use 84 million barrels a day. In 11 or 12 days, we—the world—use a billion barrels of oil. So if we’re getting 600,000 from the Bakken oil fields out in the West, that’s almost literally a drop in the bucket, isn’t it?

I’d just like to close, this last chance probably that I have to come and chat with you here on the floor. It’s been a huge honor to represent 660,000 people in the First District of Maryland, to come here to the Congress to talk to maybe a million, a million and a half people listening to us out there. Thank you, constituents, for this honor.

Thank you for listening.

I yield back the balance of my time.

CONGRESSIONAL BLACK CAUCUS

The SPEAKER pro tempore. Under the Speaker’s announced policy of January 5, 2011, the Chair recognizes the gentlewoman from the Virgin Islands (Mrs. Christensen) for 30 minutes.

Mrs. CHRISTENSEN. I thank the Democratic leader and leadership for giving us the opportunity to come to the floor as the Congressional Black Caucus. Perhaps some other Members may be joining us.

We wanted to just add our word of sympathy and condolences to the families in Newtown, Connecticut. We will all grieve for a very, very long time, and rightly so, the loss of the 20 innocent little children and seven adults