

# A Different Way of Knowing: the Role of Theology and Preaching in an Age of Cognitive Imperialism

An address given at the University of Basel  
upon receiving an honorary doctorate

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I begin with some recent scientific literature  
that has important  
implications for theology and preaching.

Magnetic Resonance Imaging,  
is a medical technology  
that often appears  
in articles on popular science  
in the United States.

Magnetic Resonance Imaging  
is often abbreviated  
by the letters MRI.

MRI  
uses a magnetic field  
and pulses of radio wave energy  
to make pictures of organs and structures inside the body.

It is used not only  
in the medical diagnosis of patients  
but also  
in analyzing what regions of the brain  
are engaged  
as we perform various tasks.

MRI is at the frontier  
of much creative research,  
and its discoveries appear to have implications  
for a wide range of disciplines –  
including certain aspects of theology and preaching.

For example,  
in a course on congregational song  
that I teach at Yale Divinity School,  
we read a book

that helps us understand  
the physiological impact of performing  
and listening to music.

The book is entitled  
This Is Your Brain on Music: The Science of a Human Obsession.  
Daniel J. Levitin  
is the author.

Levitin writes:

*Contrary to the old, simplistic notion  
that art and music  
are processed in the right hemisphere of our brains,  
with language and mathematics in the left,  
recent findings from my laboratory  
and those of my colleagues are showing us that music  
is distributed throughout the brain . . .  
Music listening, performance, and composition  
engage nearly every area of the brain . . . .  
and involve nearly every neural subsystem.<sup>1</sup>*

Levitin's use of MRI  
to study the effect of music upon the brain  
helps us understand  
the impact of music on worshippers  
and  
why people feel so passionately about it.

I have also recently been reading  
another book that appreciates  
the scientific advances gained by MRI  
but  
at the same time  
cautions us  
about the limitations of this impressive technology.

The book is titled  
Brainwashed: The Seductive Appeal of Mindless Neuroscience  
by Sally Satel and Scott O. Lilienfeld.

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<sup>1</sup> Daniel J. Levitin, This Is Your Brain on Music: The Science of a Human Obsession  
(New York: Dutton, 2006) pp. 8-9.

The authors have helped me to understand  
 why the brain  
 is so fascinating and enticing  
 to study:

*Containing roughly 80 billion brain cells,  
 or neurons,  
 each of which communicates  
 with thousands of other neurons,  
 the three-pound universe  
 cradled between our ears  
 has more connections  
 than there are stars in the Milky Way.  
 How this enormous neural edifice  
 gives rise to subjective feelings  
 is one of the greatest mysteries  
 of science and philosophy.”<sup>2</sup> (p. xi)*

It is no wonder then  
 that scientists would be drawn  
 to magnetic resonance imaging  
 and what it might disclose  
 about the workings  
 of this astonishing, complex organ.

There are many benefits  
 from studying the brain  
 through the use of magnetic resonance imaging,  
 but alas,  
 like many technologies,  
 its proponents sometimes  
 make claims for it  
 that exceed the bounds  
 of what it can actually accomplish.

Sally Satel and Scott O. Lilienfeld  
 discuss what they term,  
 “*neurocentrism*” –  
*the view that human experience and behavior  
 can be best explained  
 from the predominant  
 or even exclusive perspective of the brain.*<sup>3</sup> (p. xix)

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<sup>2</sup> Sally Satel and Scott O. Lilienfeld, *Brainwashed: The Seductive Appeal of Mindless Neuroscience* (New York: Basic Books, 2013), p. xi.

<sup>3</sup> Satel and Lilienfeld, p. xix.

Satel and Lilienfeld  
 locate neurocentrism  
 in a long history of reductionist thinking,  
 describing how various forms of thought  
 have purported to provide  
*an overarching narrative  
 commandeered to explain and predict  
 virtually all human behavior.*<sup>4</sup> (p. xviii)

Reductionist thought  
 is a recurring problem  
 for us humans:  
 impressed with the knowledge  
 we have attained by our science,  
 we may fail to attend adequately  
 to the domains  
 of symbol and meaning,  
 wonder and yearning  
 that our science and technology  
 can neither fully comprehend nor control.

Reductionist thought  
 is not limited to our own generation  
 and the age of the internet and the computer.

In 1940 Lewis Mumford  
 wrote a critique of reductionist thought  
 that in his day took the form of a suffocating pragmatism.  
 Mumford was concerned that people were

*vastly preoccupied with the machinery of life.  
 It was characteristic of this creed  
 to overemphasize the part played by political and mechanical invention,  
 by abstract thought and practical contrivance.  
 And, accordingly, it minimized  
 the role of instinct, tradition, history;  
 it was unaware of the dark forces of the unconscious  
 or the incalculable,  
 for the only universe it could rule  
 was a measured one,  
 and the only type of human character it could understand  
 was the utilitarian one.*<sup>5</sup>

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<sup>4</sup> Satel and Lilienfeld, p. xviii.

There is a passage in the gospels  
that throws light on this problem,  
on the limits of what we can know  
through the observation  
of the physical, measurable world.

In Luke 11: 54-56  
Jesus says

*to the crowds,  
"When you see a cloud rising in the west,  
you immediately say, 'It is going to rain';  
and so it happens.  
And when you see the south wind blowing,  
you say,  
'There will be scorching heat;'  
and it happens.  
You hypocrites!  
You know how to interpret the appearance of earth and sky,  
but why do you not know  
how to interpret the present time?"*

The people Jesus addresses  
are evidently  
skilled meteorologists.  
They lived before the scientific age,  
but they do  
what all good scientists do:  
they observe physical phenomena,  
record the results,  
and note if there is a persistent pattern  
that is replicated again and again.

Jesus does not criticize the crowds for their science.  
After all,  
there is an admirable precision  
to their forecasting.

Clouds coming from the West  
are clouds off the Mediterranean Sea:  
they are rain bearing clouds.

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<sup>5</sup> Quoted in David Brooks, "The Problem with Pragmatism," The New York Times,  
Friday, October 3, 2014, p. A27.

And winds from the south  
 are winds that have swept across  
 hot, arid lands:  
 they bring with them scorching heat.

The crowd's science is sound,  
 and it gives them good information about the weather,  
 but their science does not give them  
 hearts of wisdom.

What the people lack is the ability  
*"to interpret the present time"*  
 or as Matthew puts it in a parallel passage:  
*"You know how to interpret  
 the appearance of the sky,  
 but you cannot interpret  
 the signs of the times."* (Mt. 16: 3)

To interpret the signs of the times  
 requires something greater  
 than reductionist thought.

To interpret the signs of the times  
 we need expansive thought,  
 generous thought,  
 thought that is open to  
 wonder,  
 surprise,  
 mystery,  
 thought that is fed by the insatiable yearnings  
 of the human heart,  
 thought that is open to the surprising  
 winds of the Spirit.

Thought that is open to  
 wonder,  
 surprise,  
 mystery  
 is not limited to the impact  
 of the yearnings and longings of the human heart.

Such thought is also  
 fed by the discoveries of science  
 and the reflections of the curious mind.

I have recently finished a book,  
The Island of Knowledge: The Limits of Science and the Search for Meaning,  
 by Marcelo Gleiser,  
 a professor of natural philosophy  
 and physics and astronomy  
 at Dartmouth College in the United States.

One of Gleiser's themes  
 is that science itself  
 runs up against limits of what he terms  
*our information bubble*.<sup>6</sup>

These limits derive from the impact we have  
 upon the phenomena we observe  
 and  
 from the imperfection of our tools of measurement.

In summary of his work  
 Gleiser cites Werner Heisenberg:  
*'What we observe  
 is not Nature itself  
 but Nature exposed to our method of questioning.'*<sup>7</sup>

No single scientific method  
 nor the sum total of all our methods  
 is sufficient  
 for interpreting the signs of the times.

We need some other way of imagining  
 the deeper, higher, broader  
 dimensions of the human situation  
 in all its wonder and beauty,  
 in all its brokenness and terror,  
 in all its discontent and dreaming.

To acknowledge this need  
 for imagining the human situation  
 in some framework  
 more expansive than science alone  
 is **not** to reject science

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<sup>6</sup> Marcelo Gleiser The Island of Knowledge: The Limits of Science and the Search for Meaning (New York: Basic Books, 2014), p. 94.

<sup>7</sup> Gleiser, p. xiii.

or to devalue its accomplishments.

It is rather to celebrate  
those ineffable dimensions  
of human consciousness and feeling  
that make life  
profoundly satisfying.

Gleiser expresses both the limits of science  
and the riches of conscious existence  
in an extended meditation  
on the joy of human relationships.

He begins by observing:

*While the physical and social sciences  
surely can illuminate many aspects of knowledge,  
they shouldn't carry the burden of having all the answers.  
How small a view of the human spirit  
to cloister all that we can achieve  
in one corner of knowledge!*<sup>8</sup>

I appreciate Gleiser's use of the word "cloister" here.

It suggests that there can be  
a confining religious dogmatism  
to any form of human thought,  
including that of science.

Gleiser offers as an alternative the realization that

*We are multidimensional creatures  
and search for answers in many, complementary ways.  
Each serves a purpose, and we need them all.*

To recognize that we are "multidimensional creatures,"  
and that we have many "complementary ways" of human knowing  
is to avoid  
what I term "cognitive imperialism."

Cognitive imperialism claims  
one form of human knowing  
to be the highest and most authoritative  
way of gaining knowledge,

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<sup>8</sup> Gleiser, this and the next two quotations are from pp. 280-281.



and it considers other forms of knowledge  
to be inferior at best  
and illusory at worst.

Although Gleiser himself  
does not use the term “cognitive imperialism,”  
he illustrates its meaning  
with a delightful analysis of a common human action:

*Sharing a glass of wine with a loved one  
is more than just the chemistry of its molecular composition  
the physics of its liquid consistency  
and the light reflections on its surface,  
or the biology of its fermentation  
and our sensorial response to it.  
To all that we must add  
the experience of its ruby color  
and of its taste,  
the pleasure of the company,  
the twinkle in the eyes across the table,  
the quickening of the heart,  
the emotion of sharing the moment.  
Even if many of these reactions  
have a cognitive and neuronal basis,  
it would be a mistake to reduce them all  
to a measurable data set.  
It all sums up;  
it all becomes part of what it means to be alive,  
to search for answers,  
for companionship, for understanding for love.*

Although there are passages in Gleiser  
where he eschews any interest in theology,  
I find this passage  
implicitly theological  
in the way it moves  
from the purely physiological –  
the color of the wine,  
the processes of fermentation that produced it –  
to the realms of meaning, fellowship and love:  
all of them central concerns of the gospel.

In a manner Gleiser never intended,  
his description  
resonates with the sacrament of communion  
in which the church shares wine

with its beloved Lord.

Whatever Gleiser might think  
of my theological reading  
of his scientific and philosophical ruminations,  
I believe he is addressing a hunger  
for the more holistic understanding of life  
that lies behind  
the contemporary search for a vital spirituality.

I do not know about here in Switzerland,  
but in the United States  
the search for a vital spirituality  
has become a major cultural phenomenon,  
puzzling to many academics and intellectuals  
and dismissed by some as a fad,  
as a pursuit without substance and depth.

I turn now to consider  
the search for a vital spirituality  
in light of my discussion  
of human knowledge  
and the distortions of cognitive imperialism.

I do this because I consider  
spirituality to be one of the signs of our time  
that we need to read with greater understanding  
if we are to practice theology  
and preach the gospel  
in ways that engage people now.

To update the passage I quoted earlier from Matthew:  
We know how to scan the brain  
and gather vast amounts of data  
but we do not know how to read  
the signs of our time  
and what they reveal about the human heart.

Spirituality,  
as nearly everyone observes,  
is an elusive term.

Skeptics find it to be  
a squishy word,  
an easy cipher for sloppy thinking.

Yes, spirituality can be amorphous  
and difficult to define,  
but the word clearly resonates  
with yearnings and longings  
that are part of what makes us human.

And if we dismiss spirituality prematurely  
because it does not conform  
to our ways of knowing and thinking,  
we may be giving into cognitive imperialism  
that blinds us to a significant signal  
from the depths of the human heart.

The hunger for spirituality  
is in our day  
what Jesus in his day called  
“a sign of the times.”

It therefore behooves us  
to find a way of reading  
the sign of spirituality,  
a way of tracing its roots  
and understanding its meaning.

Rather than discount the word,  
Bruce W. Speck,  
in a volume entitled Spirituality in Higher Education,  
has collected  
a number of contemporary definitions of spirituality,  
not in order to arrive  
at some definitive conclusion,  
but to show us the wide range of ways  
spirituality is understood.

Here are some of the definitions that Speck collects:

*Spirituality is the living out of the organizing story of one's life.*  
*Spirituality is the experience of the transcendent.*  
*Spirituality is the place in our hearts that holds all of the questions about our  
purpose in the world, and it is reflected in our actions.*  
*Spirituality can be understood as the ability to experience connections and to  
create meaning in one's life.*

*Spirituality is the eternal human yearning to be connected with something larger than our own egos.<sup>9</sup>*

I find Speck's list helpful  
in giving us a sense  
of the intellectual directions  
and affective yearnings that  
lie behind the quest for spirituality.

In the same book  
in which Speck collects  
varied definitions of spirituality,  
J. Raper writes another essay  
that laments how much of higher education  
ignores the issue all together:

*Religious and spiritual inquiries  
are not considered  
to be intellectual endeavors;  
consequently,  
they receive little respect and attention in the academy.<sup>10</sup>*

Part of what we are dealing with here  
is cognitive imperialism,  
with hierarchies of human ways of knowing.

Modes of knowledge get divided  
into polarized dichotomies:  
reason versus feeling,  
science versus religion,  
academic versus spiritual.

The result is  
that it becomes difficult,  
and in some cases impossible,

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<sup>9</sup> Bruce W. Speck, "What Is Spirituality?" in Sherry L. Hoppe, Bruce W. Speck, eds., Spirituality in Higher Education: New Directions for Teaching and Learning, San Francisco: Jossey-Bass, 2005, pp. 3-4. Speck lists the sources for each of these independent definitions. There are more than I quote here.

<sup>10</sup> Cited by Bruce W. Speck, "What Is Spirituality?" in Sherry L. Hoppe, Bruce W. Speck, eds., Spirituality in Higher Education: New Directions for Teaching and Learning, San Francisco: Jossey-Bass, 2005, p. 5.

for people to communicate  
 across their differences  
 in their disciplines,  
 in their professions,  
 in their cultures,  
 in how  
 they perceive,  
 process  
 and respond to the world.

The inability to see the differences  
 as complementary rather than opposed  
 often turns to hostility or contempt.

To repeat some earlier words,  
 I quoted from Marcelo Gleiser:

*How small a view of the human spirit  
 to cloister all that we can achieve  
 in one corner of knowledge!  
 We are multidimensional creatures  
 and search for answers in many, complementary ways.  
 Each serves a purpose, and we need them all.*

To feel how narrow  
 the cloister of cognitive imperialism  
 can be  
 consider this quotation from Patrick Arsenault,  
 a postdoctoral fellow at the medical school  
 of the University of Pennsylvania.

Dr. Arsenault attributes his ardor for his wife to  
*a neuronal change induced by mutual oxytocin release.*<sup>11</sup>

I do not dispute the chemistry  
 that gives rise  
 to physical attraction.

But when I want to express affection for my wife,  
 I find it truer to my sentiments  
 to say “Darling, I love you”  
 than to announce

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<sup>11</sup> Samuel G. Freedman, “A Christian Apologist and an Atheist Thrive in an Improbable Bond” in The New York Times, October 4, 2014, p. A 14.

“We are experiencing a neuronal change induced by mutual oxytocin release.”

That scientific statement,  
no matter how true it is biophysically,  
fails to grasp the insight of the great American novelist,  
Marilynne Robinson,  
who observes:  
“human beings are invested  
with a degree of value  
that we can’t honor appropriately.  
An overabundance that is magical.”<sup>12</sup>

The cloister of cognitive imperialism  
fails to honor that magical overabundance,  
fails to acknowledge  
what Juan Sosa names  
“the center of intangibles,”<sup>13</sup>  
by which he means  
those profound values that pulse  
in the heart of a culture.

At their healthiest,  
theology and preaching  
keep reminding us of the magical overabundance of being human.  
Theology and preaching keep us in touch  
with the center of intangibles.  
And in doing so  
they treat seriously  
the spiritual dimensions of reality.

At their healthiest and most effective,  
theology and preaching  
are a form not of MRI,  
not a form of Magnetic Resonance Imaging,  
but a form of HRI:  
Holistic Resonance Imaging.

By the word holistic  
I mean a way of exploring life

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<sup>12</sup> As quoted by Wyatt Mason, “Saying Grace: The revelations of Marilynne Robinson” in The New York Times Magazine, October 5, 2014, p. 27.

<sup>13</sup> I am indebted to a lecture by Rita Ferrone during the 2013 Congregations Project of the Yale Institute for Sacred Music for this phrase from Juan Sosa. I do not have the original citation at hand.

that involves multiple modes  
of knowing  
and being  
and doing.

By the word resonance  
I mean the evocation  
of meanings  
that extend beyond  
what we can scientifically measure or calculate.

And by the word imaging,  
I mean the visionary power of the imagination  
enlivened by the wind and fire of the Spirit.

Preaching as Holistic Resonance Imaging  
gives witness to the same grace  
that the scientist Marcelo Gleiser  
makes manifest  
when he acknowledges it is  
*too small a view of the human spirit  
to cloister all that we can achieve  
in one corner of knowledge!*

Instead of being cloistered  
in one corner of knowledge,  
theology and preaching  
eschew cognitive imperialism  
by drawing on a wide repertoire  
of cognitive systems.

In my own work as a theologian,  
I have found Howard Gardner's theory of  
Multiple Intelligences<sup>14</sup>  
immensely useful  
in helping students  
to move beyond cognitive imperialism  
by employing a number of ways of knowing  
in their sermons.

I have written extensively about this  
in the book that I co-authored

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<sup>14</sup> Howard Gardner, Frames of Mind: The Theory of Multiple Intelligences (New York: Basic Books, 1983).

with Professor Edward Everding,  
 an expert in theories of cognition and education:  
So that All Might Know: Preaching that Engages the Whole Congregation.<sup>15</sup>

To put the theory of multiple intelligences briefly,  
 Gardner identifies eight distinctly different intelligences,  
 demonstrating that language and logic  
 are only two ways of human knowing,  
 and that there are other important faculties of cognition  
 by which people receive, process and respond to the world.

I believe our ancient forbears  
 had an intuition of this principle  
 when they formulated  
 that the first and greatest commandment  
 is to love the Lord  
 with all our heart and mind and soul and strength.

It is a commandment  
 we continually  
 try to avoid fulfilling.

As I once put it in a hymn:

If all you want, Lord, is my heart,  
 my heart is yours alone,  
 providing I may set apart  
 my mind to be my own.

If all you want, Lord, is my mind,  
 my mind belongs to you,  
 but let my heart remain inclined  
 to do what it would do.

If heart and mind would both suffice,  
 while I kept strength and soul,  
 at least I would not sacrifice  
 completely my control.

But since, O God, you want them all  
 to shape with your own hand,  
 I pray for grace to heed your call  
 to live your first command.

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<sup>15</sup> Thomas H. Troeger and H. Edward Everding Jr., So that All Might Know: Preaching that Engages the Whole Congregation (Nashville: Abingdon, 2008).



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To give all aspects of our humanity  
to the One who created us  
and whom we recognize as the source of truth  
is to energize the full repertoire  
of our intelligences.

Our theology and preaching become a witness  
to the multiple dimensions of knowing,  
a reminder to a culture of technology and science  
that cognitive imperialism is incapable of  
satisfying the profoundest hungers of the human heart.

“Holistic” means, then,  
engaging the sum total  
of who we are as creatures  
blessed with a consciousness  
that continuously forms and re-forms itself  
through the work of knowing,  
and being  
and doing.

Theology and preaching  
become holistic resonance imaging  
when they avoid reductionist thought  
and employ multiple ways of human knowing  
to give witness to the living Word of God.

The resonance in  
holistic resonance imaging,  
is the deep wisdom  
that sounds through  
through the stories and symbols  
of highly varied cultures and traditions.

It is also the resonance  
of new revelations  
from science and art,  
music and literature.

It is the resonance

of human experience,  
 from terror and tragedy  
 to wonder and joy.

When theology and preaching  
 awaken this resonance  
 by engaging people's multiple ways of knowing  
 then they speak to the contemporary longing  
 for a vital spirituality.

Such theology and preaching  
 awaken our visionary powers  
 by engaging  
 heart and mind and soul and strength  
 with the irrepressible resilience  
 of the divine vitalities.

To use the poetry of the Gospel of John,  
 we experience that irrepressible resilience  
 as "living water." (John 4: 10)

Our visionary powers  
 enable us to see  
 the glories of creation  
 with fresh eyes.

We come to understand  
 what a gift and privilege it is  
 to live in a universe of 50 billion galaxies,  
 to dwell on a spinning watered stone  
 that we share with unnumbered forms  
 of bacteria, creatures and plants.

Theology and preaching  
 become Holistic Resonance Imaging,  
 when they lead us  
 into a state of gratitude and wonder  
 as we realize  
 that breath and pulse  
 are astonishing gifts –  
 utterly unearned.

I want to illustrate this  
 with a very brief homily.  
 Today is Thanksgiving Day

in the United States  
so in keeping with that holiday,  
I offer this brief Thanksgiving homily:

### Homily

We who preach  
engage the visionary powers  
to make clear  
the glory and tragedy of our humanity:  
how we bear the image of God  
yet fail to claim  
the implications of that truth.

We engage the visionary powers  
to challenge whatever pharaohs  
hold us enslaved  
and to find our wandering way  
through wilderness to the promised land.

We engage the visionary powers  
to reclaim the perspective of the prophets:  
naming how power is misused  
and the structures of authority  
are too often invoked to maintain  
the privilege of the wealthy  
at the cost of the poor.

We engage the visionary powers  
to seek out with Christ  
the lost, the wounded, the ignored, the desperate  
and to find ways to include them  
and to restore them to wholeness.

We engage the visionary powers  
because through them  
we are renewed  
by the irrepressible resilience  
of the divine vitalities:  
that is to say,  
we come to realize  
that the risen Christ  
lives among us,  
lives in us,  
lives with us,  
lives for us.

We engage the visionary powers  
 to dream new dreams  
 of a church that is faithful  
 to Christ  
 and open to the Spirit's  
 wind and fire.

We engage the visionary powers  
 to glimpse  
 not brain wave patterns  
 but the reality of the human soul.

By "soul" I do not mean  
 an ephemeral ghost  
 that inhabits the body  
 and flies away at death.

Rather I mean  
 the human creature  
 in its totality before God,  
 an integration and wholeness of being  
 that remind an age of cognitive imperialism  
 there is a different way of knowing.

I end by expressing  
 that different way of knowing  
 through lines from one of my hymns,  
 that was commissioned by a teacher of physics,  
 a scientist and person of faith  
 who taught in a Catholic school:

We look down deep to look out far  
 for in the heart's deep caves  
 we find the Light that lights each star,  
 its particles and waves.

We look out far to look down deep  
 for in the swirling skies  
 we sense the wind whose breathings sweep  
 the heart as wordless sighs.

We look where all directions merge,  
 where heart and heaven meet,  
 where light and wind as one converge

to make our life complete.<sup>16</sup>

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<sup>16</sup> Thomas H. Troeger, Above the Moon Earth Rises: Hymn texts, anthems, and poems for a new creation, New York: Oxford University Press, 2002, p. 85. The lines are excerpted and slightly modified by the poet to fit this address. The physics teacher who commissioned the hymn was Mark Konewko.