

# WONDERS OF SCIENCE

“... bringing life to science”

Wonders of Science is a ministry of Calvary Baptist Church



*Dear Friends of Wonders of Science:*

*May this season find you thankful for God’s selfless gift of offering His only begotten Son Jesus on behalf of His creation making it possible to be adopted as His children. While we still have the opportunity, might we all reflect that truth in every contact God brings. Our hearts remain full of thankfulness for you and the prayers and support you offer for the ongoing ministry of Wonders of Science. All praise goes to our great and mighty God and Savior, our Lord Jesus Christ.*



## Don’t Drop That On Your Toes!

Heights Christian Pre-school requested a program on senses. The director, Mrs. Clayton, oversees her creative team. I was impressed with the maturity of the youngster’s questions and enjoyed their hilarious suggestions they thought the answers might be. Their attentiveness to the 45 minute presentation spoke volumes.

I illustrated invisible forces of gravity, sound, light, etc., and emphasized that you can’t see them, but they are there to help you live right and learn from God’s creation. (Colossians 1:9-23 KJV)



A very attentive pre-school (above);  
Ball bearings and gravity (below)



Making a “string” phone call

Some recent surveys show about 20% of church-going youth leave a Biblical faith by 6<sup>th</sup> grade! Another 20-30% drift during middle school and 20-30% more leave after high school. I’m grateful for the opportunity to present Biblical truths in memorable ways, and to introduce the Creator through His creation and instill sensitivity for the authority of God’s word. That would hopefully begin some discernment regarding the words and interpretations of men.



## Hartland Fall Camp

Terry and I experienced one of the most fruitful science camps recently at Hartland Home School retreat this fall. We visited last spring and were asked to return this fall with our full program. Professional acquaintances, Dr. and Mrs. Rick Oliver, noted herpetologist (Ph.D. dissertation on rattlesnake venom), handled the morning and evenings sessions and I was responsible for three 90 minute presentations during the week days. Bryan, the Director of Hartland, responding to a parent's comment about the camp said, "Something is really happening here." (see comments)

### We Live on the Crumbs of Our Solar System!

The first half of each day session involved the live WOS presentations. Then we move to another location for several hands-on experiments. One popular event was learning the relative masses of the Sun to the planets. Ninety-nine percent of the Solar System's mass is in our Sun! Imagine a 35 gallon barrel filled with clay as the Sun's mass. Each group rolled out a 10 inch "hot dog" of clay, cut it into ten segments, rolled 9 up into a golf ball size representing the mass of Jupiter. Next, the last segment was cut in half and one part rolled into a marble sized ball as the mass of Saturn and the remaining half cut and rolled into two pea-sized balls that represented the masses of Uranus and Neptune.

With no clay left I just waited. A student invariably asks, "Hey, what about all the other planets and moons?" I look around the room and ask, "Class, what about that?" It's fun to watch them trying to figure it out.

I break the silence, "Okay everyone. Lift your plastic knives. The rest of the entire Solar System's mass is represented by the crumbs left in the serrations on your knife blades! Those crumbs represent all the mass of Mercury, Venus, Earth, Mars, the moons, the asteroids and the minor planet Pluto and its moons!" The stunned looks reveal a lot. And to think our Creator cares about crumbs. No wonder the Psalmist exclaimed, "***What is man that you are mindful of him, and the son of man, that you visited him?***" (Psalm 8:4 KJV)



Dividing up the mass of the Solar System

### BE INVOLVED!

#### Prayer:

- For open hearts with all the skeptical professionals with whom we are in contact.
- For continuing support to provide the Lord's needed answers to life's questions rather than man's reasoning.
- For continued health, stamina and close walk with the Lord in this challenged world.
- Prayerfully consider ordering your Wonders of Science 4-DVD 8 hr. set of our entire week of programs in time for gifts. Only \$25 (includes s&h) to:  
**Wonders of Science; 6401 Glengarry Ave.; Whittier, CA 90606**

**Wonders of Science  
Counts on You!**



Dad gets his turn as well (above)  
Let's launch as many as we can (below)



## Wow! That One Went To the Moon!

How enjoyable to watch youngsters and parents having such a great time launching rockets. With three pneumatic launching sites and a compressor running constantly to keep up, the exclamations kept coming. Very tall pine trees held back a small window to the sky outside the experiment lodge entrance. With extra rockets for everyone in addition to the ones the students (and parents) built those days, we heard many laughs as rockets landed in treetops and on various buildings. ([www.itsablast.com](http://www.itsablast.com))

Biblical applications range from: "force" without direction is pointless; "direction" without force is useless; "power" without purpose is wasteful; "purpose" without intent is meaningless! With no apologies to "Star Wars," the "Force" is...well, read this paragraph over again. (Hebrews 11:6; 2 Peter 1:5-8; Philippians 4:13; Jeremiah 16:14;



These all landed in the treetops!

## Mom, Look! I Made A Rainbow

Some of the most enjoyable experiments for youngsters are when they become "scientists." Handling test tubes and solutions can be fun. I marked off four volume divisions on six test tubes for each group. Numbers 1, 3, and 5 were filled with red, yellow and blue colored water. One fourth of each of those three tubes is then transferred in a certain sequence to numbers 2, 4 and 6. The result is the colorful rainbow. Simple, but very visual as evidenced by the "wow, amazing, beautiful" comments I heard. (Genesis 9:9-17 KJV)

I emphasized that our eye has only three types of color sensing cells (cones) that detect red, green and blue, the primary colors for light (for pigment primaries, yellow replaces green). By sending *different levels* of those three signals to the visual cortex, your brain can experience over 22 million colors! All color comes from visible light. By receiving *equal amounts* of all three different colors of light, your brain interprets the three as white light. This can help us illustrate the Trinity; how three expressions of Divinity as Persons are yet all of the same essence, the Godhead.

*(Any interested in the procedural pages of the two experiments may request them via email or letter.)*

Now, watch when I add this color



You made a beautiful rainbow!

Fascinating to watch for all ages



## There is More Than One Way Into Prison!

Breaking any number of different laws would do it. But what if you actually wanted to go?

Terry and I have visited and instructed inmates for many years through Wonders of Science. Few receive quality study materials or even letters from home or friends. It's a very lonely environment and at times more challenging than anything those of us, "on the outside" as it's called, experience. (Matthew 25:42-45 KJV)

Recently in Minnesota for the funeral of Terry's brother Gene, we allowed extra time to visit one of the correctional facilities near Minneapolis that WOS has worked with for a long time. Dave, our inmate contact had attended a WOS presentation in his youth. He had "hit bottom" in his business endeavors, came to faith in prison and asked us for materials to study the Bible. He became a fruitful, unintimidated Bible study leader over the years whose group grew from one to a dozen or so. As each "disciple" was transferred he would begin his own Bible study and now there are eleven groups in various prisons. In addition to Dave, Terry and I hoped to meet Josue, Dave's first convert from twelve years ago.

"Sorry, you can't see him. You have to reapply on a new form and wait three weeks!" The officer was polite, but also empathetic. Visiting is a controlled process through application, clearance and then very limited access. We were cleared years ago for our initial contact with Dave, but we hoped to see Josue who hadn't had a visitor contact pass in fifteen years! No family or friends had ever come and he was very lonely.

The problem was, Josue had been transferred in from a county jail system and our visit to that jail many years ago was only through a thick glass partition (an amazing story in itself reported earlier). I explained we'd come all the way from California and were not sure when we'd ever be back. The officer paused and then said he knew the director of the application process. "You go through with your first two hour visit and check with me afterwards. No promises."

The Bible study leader, Dave, didn't know we were coming because of the unexpected funeral. Inmates are never told who might we waiting to see them. By now for Dave, it had been a couple of years. It was just after his birthday so what a surprise for him! Afterward we exited the room and were relieved to be told we were cleared for our next visit. Praise to the Lord! He works in wonderful ways.

The huge steel doors once again rumbled aside one at a time, that disturbing sound of final freedom slipping away. There on the inside stood Josue, peering around the edge, nervous as if anticipating trouble. Then with a huge grin of relief, he remembered us from long ago and we had a wonderful reunion, the first time for a person to person contact, he'd had in fifteen years!

***Please read how God used Josue to impact the inmates due to our visit in the "Comments" section.***



The daunting doors of prison cells!

## Comment Corner

*"I couldn't convince our kids and their friends to attend the science programs instead of swimming the first day. After their other friends told them what they learned and did the first day, I couldn't keep them away from the demos the rest of the week!"*

**--Family's first time at camp**

*"I never knew I could love science and God so much at the same time."*

**--Young camp student**

*"This was the best, most meaningful and helpful camp [we] have come to; real science, real Bible, it made God so big."*

**--Parental comments to director**

*"Something is happening here!" (response to the above quote by parents) as he requested that WOS return next May for another family science camp."*

**--Hartland Camp Director**

*"I am so happy to see your willingness to correspond with my brother... It was my Moms prayer for years before she passed, that he would find someone that could challenge him intellectually and spiritually with the questions he was struggling with. After being a strong creationist for years, he has wavered and has had many questions that were far beyond our capacity to answer. He has taken a real interest in your material and it is my prayer that he will find the Truth of God's Word there."*

**--Recent correspondent**

*"We thank you and the Lord for what you two are doing. I too enjoyed physics while in school and taught it in a community college...Our youth, many without parental guidance, can use all the help you are doing."*

**--Another letter**

*"The material about Christianity vs. Islam was very helpful. The group of people I shared this with was not too happy, but one of them now comes to me asking more about Christian beliefs and has asked if someone can become a Christian even if in the past they had a different belief. I told him that my opinion is, that for most of us, we all had different beliefs before coming to Christ."*

**--Email from inmate**

*"Hi Dean, thanks for the advice. I gave it some thought and decided to go for it. I'm gonna try my best and see if I could at least get an AA out of my time being here. I know school or any kind of education won't help me much out there but I guess, it wouldn't hurt knowing I achieve something while I was in lock up...wish I could have your job...working for GOD...you inspire me to be more educated so here I am now just starting to get level up and catch up...well anyways thanks once...best wish and love to you and your family."*

**--Xee Hmong inmate**

*"Dear Dr. Dean, I thank GOD for the wonderful surprise and blessing of your visit, I had so many people come to me as I came back to my unit and ask me if everything was OK, to which I answered, Yes! They were all telling me that they were concerned as to what was going on because they know that I don't get called for visiting passes.*

*I used this as an opportunity to tell them about our (yours and mine) relationship with Christ and therefore leave an invitation open to questions they might have about my belief concerning the scriptures.*

*Oh! they did let me keep the pass that you both signed. Thank You! I truly can't stop thinking about your visit, thank you."*

**--Josue, Spanish inmate**

*"I have witnessed Dr. Ortner's presentations a number of times. He makes the scientific aspects of God's creation absolutely spellbinding. He is one of the four people who has had a profound effect on me in spiritual matters. God bless him and his ministry."*

**--Program attendee**

### Another Source for DVD's:

We shared the platform last May with Eric, a science speaker, who has a ministry in Pensacola, FL. He requested our demonstration DVD set so his organization [www.CreationToday.com](http://www.CreationToday.com) can also offer them.

# WCS WONDERS OF SCIENCE

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Address Correction Requested

## Ukraine, Russian, Persian Translation and Ministry Expansion

Pray for the continuing work translating the Wonders of Science DVD set.

Joel and Irena are our missionary friends in the Ukraine. Their ministry opportunities are expanding so they added the WOS DVD set to their translation projects.



Outreach sports ministry team in Nepal near Kathmandu

Joel and Irena's webpage has around 600,000 regular users with considerable visitor traffic already in the first half of this year. Approximately seventy percent of the users access the sites via mobile phones. [Our] "...

goal is to provide a very secure platform that allows our users to use and download material..."

On Facebook we have over 160,000 people signed up to get new content released each week. We try to format most of our material into short videos, easy to watch, and fit on a thumb drive (for distribution in closed nations).

Via satellite, we broadcast three times each week. We produce two main programs; one focused on discussion topics with a guest and another on Sundays for preaching and teaching. We were asked to take over a third timeslot with an interview style for guests connecting from around the world.



When you can't stand against the pressure,  
kneel before the Lord