

## How to Freeze a Turtle



*I would seek unto God, and unto God would I commit my cause: which doeth great things and unsearchable; marvellous things without number... – Job 5:8-9*

The painted turtle is found farther north than any other turtle in North America. During their first year of life, painted turtles survive temperatures as cold as 18° F.

After mid-June, painted turtles begin to lay their eggs. The eggs are buried, safely out of sight of predators, and the mother turtle returns to her normal habitat. The young hatch in ten or eleven weeks. However, they remain buried in the ground, and therefore safe from predators, all winter. The problem is that turtles freeze solid at the temperatures found at nest depth in the winter. When living cells freeze, the long, sharp ice crystals that form in them puncture the cell membrane, killing the cell.

As the baby turtles freeze, even the heart and brain eventually freeze. There is no breathing and no heartbeat. Only a tiny bit of electrical activity in the frozen brain reveals that life remains in the body. Why don't ice crystals rupture the cells? The young turtle's liver makes special proteins that are circulated to every cell in the body. These proteins ensure that very small ice crystals cannot become large enough to puncture delicate cell walls.

Only God could have invented such a unique method of protecting tiny painted turtles. Even scientists marvel at this!

Ref: Janet M. Storey and Kenneth B. Storey. "Out Cold." *Natural History*. January, 1992, pp. 23-25. Photo: Painted turtle. (PD)

© 2015, Creation Moments. Churches and parents may freely copy these bulletin inserts.

**CREATION MOMENTS, INC.**

P. O. Box 839 • Foley, MN 56329 • 800-422-4253

If these bulletin inserts are a blessing to you, please consider making a donation of any amount so we can continue to provide this free resource: [www.creationmoments.com/donate](http://www.creationmoments.com/donate).

Bio: Garth has been married to Joyce 38 years. They are blessed with three married children and five grandchildren, with another due to arrive in November. Garth pastored in 2 churches. He and his wife were church planting missionaries in Spain for 10 years.

### **Schedule for the week of August 31-September 6, 2015:**

- Tuesday: 1:00-3:00 pm **Women's Bible Study** – *When People are Big and God is Small*, chapter 11  
(Lessons are available on the website.)  
MCC's Fellowship Hall
- Wednesday: 6:30-8:00 pm **Bible Study- Genesis**  
(Time crunch? Feel free to bring your dinner.)  
MCC's Fellowship Hall.
- Sunday: 10:00 am **Sunday Service**  
Los Vecinos Community Center "Upper Room"

### **Announcements:**



**Happy Anniversary** to **Bill & Joyce** on Tuesday,  
September 1<sup>st</sup>

### **CBC partners with these local outreaches:**

- East Mountain Care Net Pregnancy Center (505-281-5408)
- Camp Oro Quay (505-281-5474)



**CANYON BIBLE CHURCH**

PO Box 1674, Tijeras, NM 87059-1674

**[www.canyonbible.org](http://www.canyonbible.org)**

Bill Butler, Pastor (505) 228-2609 [Bill@CanyonBible.org](mailto:Bill@CanyonBible.org)

David Smith, Deacon (505) 286-2802 [David@CanyonBible.org](mailto:David@CanyonBible.org)