

- Sunday mornings: 10.30am
- Sunday evenings: 6.30pm

NEWSLETTER

December 2022



We welcome you to our services today. If this is your first visit, please make yourself known to us.

May you know God's blessing, as we worship our awesome God.

Any items for inclusion in the newsletter should be passed to Laurence 1 week prior to the last day of the month is <u>laurencechetwood@icloud.com</u>

Christmas at Koinonia

<u>Sunday 18th December</u> 10:30am Family Service 6:30pm Carols By Candlelight

Refreshments will be served following the candlelight service...

Tea, Coffee, Hot Chocolate, Mince Pies, Biscuits etc.

Sunday 25th December 10:00am Christmas Day Service

Please invite family and friends to join us!

December Diary

December 4 th	10.30 am 5.30 pm 6.30 pm	Jim Spencer Prayer Meeting Jim Spencer
December 11 th	10:30am 5.30 pm 6.30 pm	Paul Adams Prayer Meeting Don Olden
December 18 th	10:30am 5.30 pm 6.30 pm	Paul Adams – Family Service Prayer Meeting Don Olden – Carols by Candlelight
December 25 th	10:00am (Please note the time)	Don Olden Christmas Day Service

MEET UP WITH DON AT COSTA IN ANDOVER @ 11 am

This month Don will be available on the 13th

HOUSEGROUP MEETINGS THIS MONTH on

7th

At 1.30 pm 2pm and 7.30 pm. We will be continuing our studies in the book of Ezra

THRISTMAS MEAD

Wednesday 14th 7:30pm at Wyke Down.

CHRISTMAS CAROLS

Thursday 15th 3:00pm at Ashlawn Gardens.

PRAYER REQUESTS

- Heavenly Father we humbly pray that you watch over our Church, and bring peace, tranquility and strength, to each and every one of us. We ask in the precious name, of Your Son, Our Redeemer, Jesus Christ.
- We pray for Paul Adams' Gospel Outreach, both here in Hampshire, and also wherever his path shall take him.
- MAF desires to see isolated people changed by the love of Christ by serving together to bring help, hope, and healing through aviation. Please pray for and support this ministry, including that of Ben and Esther's in Australia.
- Continuing prayers for David and Mary Tucker and the work of Words of Life Ministries.
- Continuing prayers for Isaac and Grace Wuni in Tamale Ghana, that Our Lord will watch over them as they continue their work and mission.
- Continuing prayers for Dennis and Sheila Eaton, Syford & Elizabeth, in their Agape Outreach Ministry, in Malawi.
- May we pray for our Sunday school at Koinonia. Ever increasingly Christianity is sidelined in the education system, and other world faiths given an equal precedent.
- Prayers for Andy and Jacqui as they face bereavement and other trying issues within their family.
- Pray for Maria as she continues her recovery in hospital.

THE MANY WONDERS OF GOD'S CREATION

EACH MONTH WE'LL BE HIGHLIGHTING SOME FEATURES FROM THE NATURAL WORLD, WHICH DEMONSTRATE THE OMNISCIENCE OF OUR AWESOME CREATOR.

THE WORLD OF BACTERIA

Bacteria are microbes with a cell structure simpler than that of many other organisms. Their control centre, containing the genetic information, is contained in a single loop of DNA. Some bacteria have an extra circle of genetic material called a plasmid rather than a nucleus. The plasmid often contains genes that give the bacterium some advantage over other bacteria. For example it may contain a gene that makes the bacterium resistant to a certain antibiotic.

Bacteria are classified into five groups according to their basic shapes: spherical (cocci), rod (bacilli), spiral (spirilla), comma (vibrios) or corkscrew (spirochaetes). They can exist as single cells, in pairs, chains or clusters.

Bacteria are found in every habitat on Earth: soil, rock, oceans and even arctic snow. Some live in or on other organisms including plants and animals including humans. There are approximately 10 times as many bacterial cells as human cells in the human body. A lot of these bacterial cells are found lining the digestive system. Some bacteria live in the soil or on dead plant matter where they play an important role in the cycling of nutrients. Some types cause food spoilage and crop damage but others are incredibly useful in the production of fermented foods such as yoghurt and soy sauce. Relatively few bacteria are parasites or pathogens that cause disease in animals and plants.

Most bacteria reproduce by binary fission. In this process the bacterium, which is a single cell, divides into two identical daughter cells. Binary fission begins when the DNA of the bacterium divides into two (replicates). The bacterial cell then elongates and splits into two daughter cells each with identical DNA to the parent cell. Each daughter cell is a clone of the parent cell.

When conditions are favourable such as the right temperature and nutrients are available, some bacteria like Escherichia coli can divide every 20 minutes. This means that in just seven hours one bacterium can generate 2,097,152 bacteria. After one more hour the number of bacteria will have risen to a colossal 16,777,216. That's why we can quickly become ill when pathogenic microbes invade our bodies.

Some bacteria can form endospores. These are dormant structures, which are extremely resistant to hostile physical and chemical conditions such as heat, UV radiation and disinfectants. This makes destroying them very difficult. Many endospore-producing bacteria are nasty pathogens, for example Bacillus anthracis, the cause of anthrax.

Over the last decades, scientists have been intrigued by the fascinating organisms, including bacteria, that inhabit extreme environments. Such organisms, known as extremophiles, thrive in habitats, which for other terrestrial life forms, are intolerably hostile or even lethal. They thrive in extreme hot niches, ice, and salt solutions, as well as acid and alkaline conditions. Some may grow in toxic waste, organic solvents, heavy metals, or in several other environments, that were previously considered hostile to life. Extremophiles have been found depths of 6.7 km inside the Earth's crust, more than 10 km deep inside the ocean—at pressures of up to 110 MPa; from extreme acid (pH 0) to extreme basic conditions (pH 12.8); and from hydrothermal vents at 122 °C to frozen sea water, at -20 °C. For every extreme environmental condition investigated, a variety of organisms have shown that they not only can tolerate these conditions, but that they also often require those conditions for survival

THIS MONTH'S BIBLE CROSSWORD Answers Are Below, In No Particular Order.



ACROSS

- 4. God gave these to the stars.
- 6. Number of stars in Joseph's dream.
- 8. Bible name for Zodiac.
- 10. For what reason did God make the stars?

DOWN

- 1. Star cluster in Constellation Taurus, mentioned by God to Job.
- 2. Prophet who warned against astrologers.
- 3. Number of stars in right hand of Son of Man in Revelation.
- 5. Bible star in the constellation Boötes.
- 7. His descendants shall be as numerous as the stars.
- 9. They followed the star to Bethlehem.

Names Magi Isaiah Eleven Signs Seven Mazzaroth Pleiades Arcturus Abraham