

### Al-Istiqlal Mosque

Sarajevo, Bosnia  
Year Established: 2001



### Muslims' Contributions to Civilization (Physics)

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The study of experimental physics began with Ibn al-Haytham. The experimental scientific method was soon introduced into mechanics by **al-Biruni**. The law of inertia, known as Newton's first law of motion, and the concept of momentum were discovered by **Ibn al-Haytham**

**(Alhacen)** and Avicenna. The proportionality between force and acceleration, considered "the fundamental law of classical mechanics" and foreshadowing Newton's second law of motion, was discovered by **Hibat Allah Abu'l-Barakat al-Baghdaadi**, while the concept of reaction,

foreshadowing Newton's third law of motion, was discovered by Ibn Bajjah (Avepace). Theories foreshadowing Newton's law of universal gravitation were developed by **Ja'far Muhammad ibn Musa ibn Shakir, Ibn al-Haytham, and al-Khazini**.

# 2014 January

يناير - كانون الثاني

# Safar - Rabi' I 1435

صفر - ربيع الأول

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**Ebu Beker Mosque**

Shkodër, Albania  
Year Established: 1995



**Muslims' Contributions to Civilization (Parachute & Flying Machine)**

A thousand years before the Wright brothers a Muslim poet, astronomer, musician and engineer named Abbas ibn Firnas made several attempts to construct a flying machine. In 852 he jumped from the minaret of the Grand Mosque in Cordoba using a loose cloak stiffened with wooden struts. He hoped to glide like a bird. He didn't. But the cloak slowed his fall, creating what is

thought to be the first parachute, and leaving him with only minor injuries. In 875, aged 70, having perfected a machine of silk and eagles' feathers he tried again, jumping from a mountain. He flew to a significant height and stayed aloft for ten minutes but crashed on landing - concluding, correctly, that it was because he had not given his device a tail so it would stall on landing. Baghdad

international airport and a crater on the Moon are named after him. **Abbas ibn Firnas** (810 - 887 AD): A Berber born in Izn-Rand Onda, Al-Andalus (Ronda, Spain) and lived in the Emirate of Cordoba. He was an inventor, engineer, aviator, physician, Arabic poet, and Andalusian musician.

**2014 February**  
فبراير - شباط

Rabi' II **1435**  
ربيع الثاني

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Suleymaniye Mosque

London, United Kingdom  
Year Established: 1999



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Muslims' Contributions to Civilization (Optics)

The ancient Greeks thought our eyes emitted rays, like a laser, which enabled us to see. The first person to realize that light enters the eye, rather than leaving it, was the 10th-century Muslim mathematician, astronomer and physicist Ibn al-Haitham (Alhazen). He invented the first pin-hole camera after noticing the way light came through a hole in window shutters. The smaller the hole, the

better the picture, he worked out, and set up the first Camera Obscura (from the Arab word qamara for a dark or private room). He is also credited with being the first man to shift physics from a philosophical activity to an experimental one. John Draper expressed his amazement that Ibn Al-Haythem wrote about these subjects in the 11th century and for several centuries Ibn Al-Haytham's

work on optics was the main source of study in Europe.

**Al-Hasan Ibn al-Haitham** (965 - 1040 AD): Born circa 965, in Basra, Iraq and lived mainly in Cairo, Egypt. He is regarded as the "father of modern optics".

**Book(s):** Kitab-al-Manadhir, Mizan al Hikmah. 200 plus books.

2014 March  
مارس - آذار

Rabi' II - Jumada I 1435  
ربيع الثاني - جمادى الأولى

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## Island Mosque

Jeddah, Saudi Arabia  
Year Established: Early 1988



### Muslims' Contributions to Civilization (Civil Engineering)

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Al-Jazari invented a variety of machines for raising water in 1206, as well as water mills and water wheels with cams on their axle used to operate automata in the late 12th century. Cordoba had the first facilities and waste containers for litter collection. The first kerosene lamp was invented by Muhammad ibn Zakariya Razi in the 9th century. Muslim engineers invented a variety of surveying instruments for accurate levelling, including a wooden board with a plumb line and two hooks, an equilateral triangle

with a plumb line and two hooks, and a «reed level». They also invented a rotating alidade used for accurate alignment, and a surveying astrolabe used for alignment, measuring angles, triangulation, finding the width of a river, and the distance between two points separated by an impassable obstruction. The streets of Baghdad were the first to be paved with tar from the 8th century AD. The first ventilators were invented in Islamic Egypt and were widely used in many houses throughout Cairo during the

Middle Ages.

**Muhammad ibn Zakariya Al-Razi** (865 - 925 AD): Born in Ragha, Persia. Shifted his interest from music to alchemy and when his experimentation caused him an eye-disease, he shifted his interest to medicine.

# 2014 April

إبريل - نيسان

Jumada II - Rajab 1435  
جمادى الآخرة - رجب

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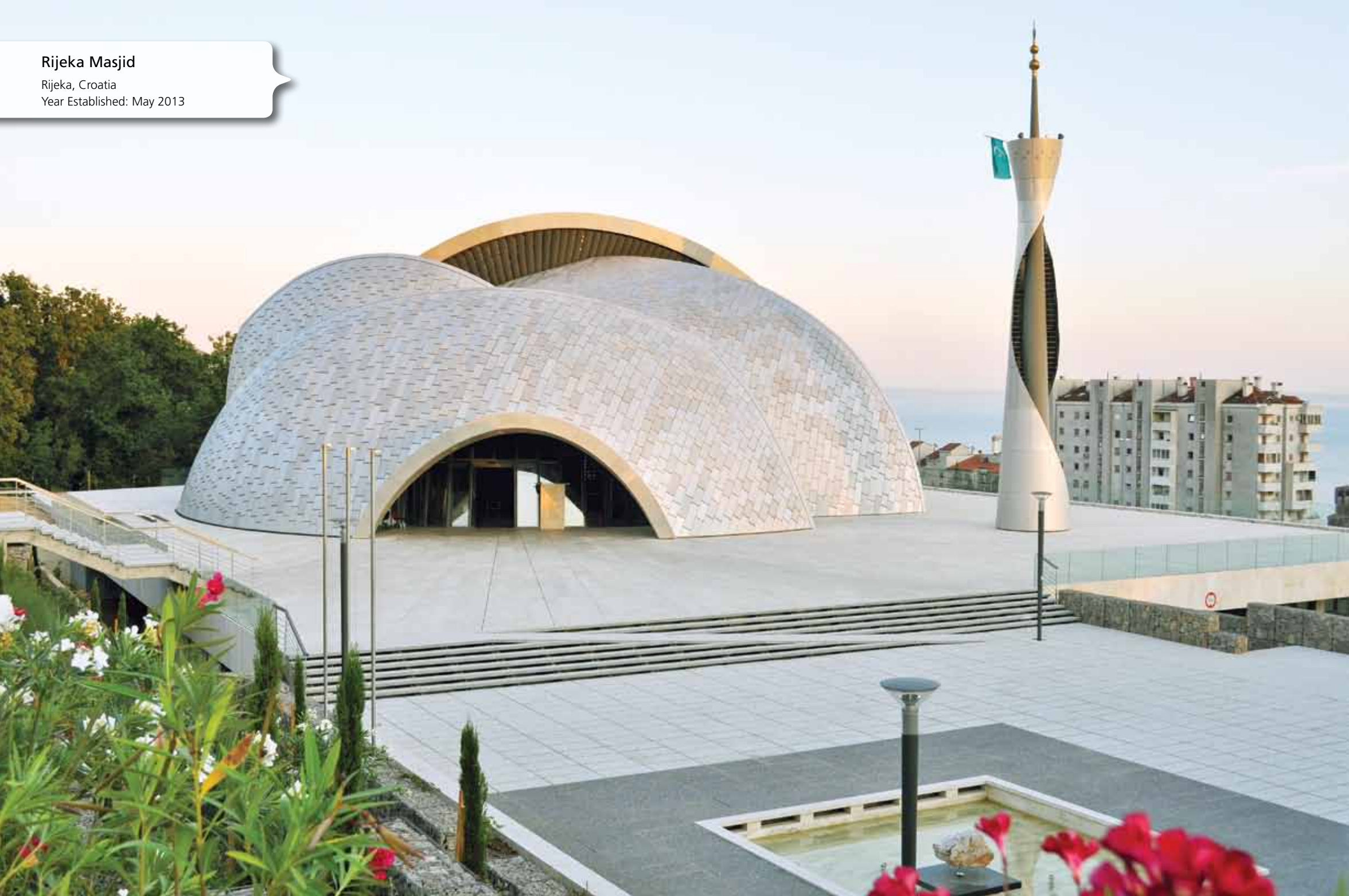
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Rijeka Masjid

Rijeka, Croatia  
Year Established: May 2013



© Al-Anwar Designs. Photograph by Riad K. Ali.

Muslims' Contributions to Civilization (Chemistry)

Distillation, the means of separating liquids through differences in their boiling points, was invented around the year 800 by Islam's foremost scientist, Jabir ibn Hayyan, who transformed alchemy into chemistry, inventing many of the basic processes and apparatus still in use today - liquefaction, crystallization, distillation, purification, oxidization, evaporation and filtration. As well as

discovering sulphuric and nitric acid, he invented the alembic still, giving the world intense rosewater and other perfumes and alcoholic spirits (although drinking them is haram, or forbidden, in Islam). Ibn Hayyan emphasized systematic experimentation and was the founder of modern chemistry.

**Jabir ibn Hayyan (Geber)** (721 - 815 AD): He is considered by some to be

the "father of chemistry". His fame rests on over 100 monumental treatises, of which 22 relate to chemistry and alchemy. Apart from chemistry, he also contributed to other sciences such as medicine and astronomy.

**Book(s):** Kitab-al-Kimya, Kitab al-Sabieen.

2014 May  
مايو - آيار

Rajab - Sha'ban 1435  
رجب - شعبان

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Masjid Zahir  
Alor Star, Kedah, Malaysia  
Year Established: 1912



### Muslims' Contributions to Civilization (Mechanics)

© Al-Anwar Designs. Photograph by Riad K. Ali.

The crank-shaft is a device which translates rotary into linear motion and is central to much of the machinery in the modern world, not least the internal combustion engine. One of the most important mechanical inventions in the history of humankind was created by an ingenious Muslim engineer called al-Jazari to raise water for irrigation. His 1206 Book of Knowledge of Ingenious

Mechanical Devices shows he also invented or refined the use of valves and pistons, devised some of the first mechanical clocks driven by water and weights, and was the father of robotics. Among his 50 other inventions was the combination lock.

**Abu Al-iz Al-Jazari** (1136 - 1206 AD): Born in Al-Jaziraóthe, northern

Mesopotamia. In his book, he described fifty mechanical devices along with instructions on how to construct them.

**Book:** Book of Knowledge of Ingenious Mechanical Devices.

# 2014 June

يونيو - حزيران

Sha'ban - Ramadan  
شعبان - رمضان

# 1435

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MAY

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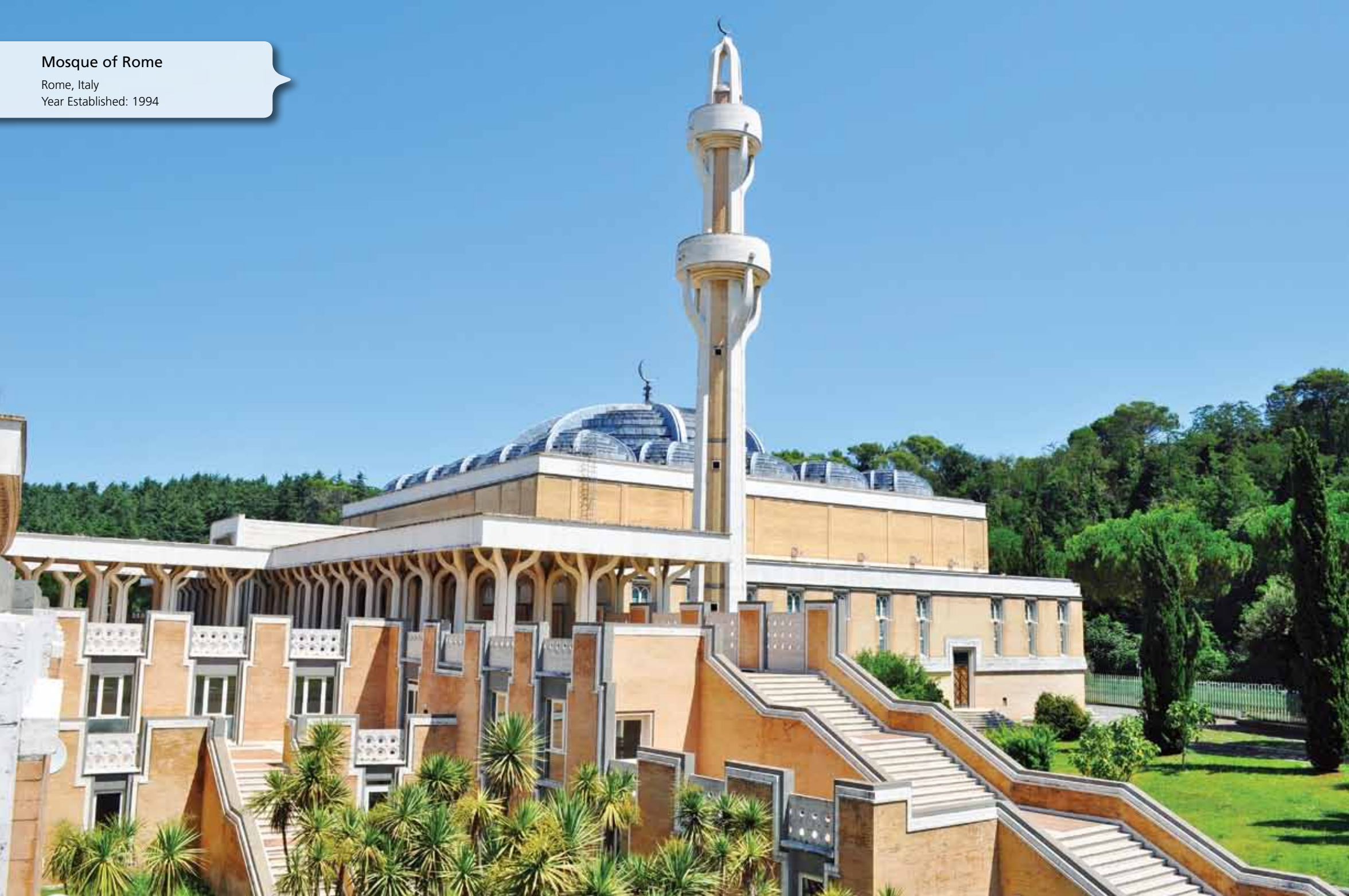
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27	28	29	30	31		



## Mosque of Rome

Rome, Italy  
Year Established: 1994



### Muslims' Contributions to Civilization (Numbering System)

© Al-Anwar Designs. Photograph by Riad K. Ali.

The system of numbering in use all around the world is probably Indian in origin but the style of the numerals is Arabic and first appears in print in the work of the Muslim mathematicians al-Khwarizmi and al-Kindi around 825. Algebra was named after al-Khwarizmi's book, *Al-Jabr wa-al-Muqabalah*, much of whose contents are still in use. The work of Muslim maths scholars was

imported into Europe 300 years later by the Italian mathematician Fibonacci. Algorithms and much of the theory of trigonometry came from the Muslim world. And Al-Kindi's discovery of frequency analysis rendered all the codes of the ancient world soluble and created the basis of modern cryptology.

**Yaqub Ibn Ishaq al-Kindi** (801 - 873 AD): Was born in Kufa. He was a

philosopher, mathematician, physicist, astronomer, physician, geographer and even an expert in music. It is surprising that he made original contributions to all of these fields.

**Book(s):** *Risalah dar Tanjim*, *Ikhtiyarat al-Ayyam*, *Ilahyat-e-Aristu*, *al-Mosiq*, *Mad-o-Jazr*, and *Aduiyah Murakkaba*.

# 2014 July

يوليو - تموز

# Ramadan - Shawwal 1435

رمضان - شوال

Sunday	الأحد	Monday	الاثنين	Tuesday	الثلاثاء	Wednesday	الأربعاء	Thursday	الخميس	Friday	الجمعة	Saturday	السبت
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				4 Ramadan		5		6		7		8	
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30	Eid Al-Fitr عيد الفطر 1 Shawwal												

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AUGUST

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24	25	26	27	28	29	30
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Masjid Umar  
Leicester, United Kingdom  
Year Established: ????



Muslims' Contributions to Civilization (Mathematics)

© Al-Anwar Designs. Photograph by Riad K. Ali.

Among the achievements of Muslim mathematicians include the development of algebra and algorithms by Muhammad ibn Musa al-Khwarizmi, the invention of spherical trigonometry, the addition of the decimal point notation to the Arabic numerals, the invention of all the trigonometric functions besides sine, al-Kindi's introduction of cryptanalysis and frequency analysis, al-Karaji's introduction of

algebraic calculus and proof by mathematical induction, the development of analytic geometry and the earliest general formula for infinitesimal and integral calculus by Ibn al-Haytham, the beginning of algebraic geometry by Omar Khayyam, the first refutations of Euclidean geometry and the parallel postulate by Nasir al-Din al-Tusi, the first attempt at a non-Euclidean geometry by Sadr al-Din, the development

of symbolic algebra by Abu al-Hasan ibn Ali al-Qalasadi, and numerous other advances in algebra, arithmetic, calculus, cryptography, geometry, number theory and trigonometry.

**Al-Khwarizmi:** (780 - 850 AD) - **Book:** Al-Jabr wa-al-Muqabalah.  
**Abu al-Hasan ibn Ali al-Qalasadi** - **Book:** al-Tabsira fi'Im al-hisab.

2014 August  
أغسطس - آب

Shawwal - Thul Qi'dah 1435  
شوال - ذو القعدة

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Muslims' Contributions to Civilization (Medicine)

© Al-Anwar Designs. Photograph by Riad K. Ali.

Abu al-Qasim (Abulcasis) helped lay the foundations for modern surgery, with his Kitab al-Tasrif, in which he invented numerous surgical instruments, including the first instruments unique to women, as well as the surgical uses of catgut and forceps, the ligature, surgical needle, scalpel, curette, retractor, surgical spoon, sound, surgical hook, surgical rod, and specula, and bone saw. Ibn al-Haytham (Alhacen) made important advances in eye surgery, as he correctly explained the process of sight and visual perception for the first time in his Book of Optics. Ibn

Sina (Avicenna) helped lay the foundations for modern medicine, with The Canon of Medicine, which was responsible for the discovery of contagious disease, introduction of quarantine to limit their spread, introduction of experimental medicine, evidence-based medicine, clinical trials, randomized controlled trials, efficacy tests, and clinical pharmacology, the first descriptions on bacteria and viral organisms, distinction of mediastinitis from pleurisy, contagious nature of tuberculosis, distribution of diseases by water and soil, skin troubles, sexually transmitted

diseases, perversions, nervous ailments, use of ice to treat fevers, and separation of medicine from pharmacology. Ibn al-Nafis laid the foundations for circulatory physiology, as he was the first to describe the pulmonary and coronary circulation.

**Ibn Sina (Avicenna)** (980 - 1037 AD): Born in Afshana, near Bukhara. For a thousand years he has retained his original renown as one of the greatest thinkers and medical scholars in history. **Book(s):** The Canon of Medicine, The Book of Healing.

2014 September  
سبتمبر - أيلول

Thul Qi'dah - Thul Hijjah 1435  
ذو القعدة - ذو الحجة

Sunday الأحد	Monday الإثنين	Tuesday الثلاثاء	Wednesday الأربعاء	Thursday الخميس	Friday الجمعة	Saturday السبت
	1 Labor Day (U.S. & Canada)	2	3	4	5	6
	6 T. Qi'dah	7	8	9	10	11
7	8	9	10	11	12	13
12	13	14	15	16	17	18
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26	27	28	29	1 T. Hijjah	2	3
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AUGUST

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OCTOBER

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**Qatar Islamic Center**

Sarajevo, Bosnia  
Year Established: After War (1995)



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**Muslims' Contributions to Civilization (Timekeeping Devices)**

In the 10th century, al-Sufi described over 1,000 different uses of an astrolabe, including timekeeping, particularly for the times of Salah prayers and Ramadan. Geared mechanical astrolabe featured a calendar computer and gear-wheels, and was invented by Abi Bakr of Isfahan in 1235. Al-Jazari invented monumental water powered astronomical clocks which displayed

moving models of the sun, moon, and stars. His largest astronomical clock displayed the zodiac and the solar and lunar orbits. Another innovative feature of the clock was a pointer which travelled across the top of a gateway and caused automatic doors to open every hour. The first geared clock was invented by the 11th century Arab engineer Ibn Khalaf al-Muradi in Islamic Iberia; it

was a water clock that employed both segmental and epicyclic gearing. Other monumental water clocks constructed by Muslim engineers also employed complex gear trains and arrays of automata.

**Al-Sufi:** (908 - 986 AD).

**Book:** Book of Fixed Stars.

**2014** October  
أكتوبر - تشرين الأول

Thul Hijjah - Muharram 1436 **1435**  
ذو الحجة - محرم 1436

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Zagreb Mosque

Zagreb, Croatia  
Year Established: 1987



Muslims' Contributions to Civilization (Architecture)

© Al-Anwar Designs. Photograph by Riad K. Ali.

The Great Mosque of Xi'an in China was completed circa 740, and the Great Mosque of Samarra in Iraq was completed in 847. The Great Mosque of Samarra combined the hypostyle architecture of rows of columns supporting a flat base above which a huge spiraling minaret was constructed. The Spanish Muslims began construction of the Great Mosque at Cordoba in 785 marking

the beginning of Islamic architecture in Spain and Northern Africa. The mosque is noted for its striking interior arches. Moorish architecture reached its peak with the construction of the Alhambra, the magnificent palace/fortress of Granada, with its open and breezy interior spaces adorned in red, blue, and gold. The walls are decorated with stylized foliage motifs, Arabic inscriptions,

and arabesque design work, with walls covered in glazed tiles. Many buildings and portions of buildings worldwide have been inspired by the Alhambra: there is a Moorish Revival house in Stillwater, MN which was created and named after the Alhambra. Also, the main portion of the Irvine Spectrum Center in Irvine, CA, is a postmodern version of the Court of the Lions.

2014 November  
نوفمبر - تشرين الثاني

Muharram - Safar 1436  
محرم - صفر

Sunday الأحد	Monday الإثنين	Tuesday الثلاثاء	Wednesday الأربعاء	Thursday الخميس	Friday الجمعة	Saturday السبت																																																																																				
<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px;"> <p>OCTOBER</p> <table border="1"> <tr><td>Su</td><td>Mo</td><td>Tu</td><td>We</td><td>Th</td><td>Fr</td><td>Sa</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td></tr> </table> </div> <div style="border: 1px solid black; padding: 2px;"> <p>DECEMBER</p> <table border="1"> <tr><td>Su</td><td>Mo</td><td>Tu</td><td>We</td><td>Th</td><td>Fr</td><td>Sa</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </table> </div> </div>						Su	Mo	Tu	We	Th	Fr	Sa				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		Su	Mo	Tu	We	Th	Fr	Sa		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				1
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**Gazi Husrev-Bey Mosque**

Sarajevo, Bosnia  
 Year Established: 1531  
 Year Renovated: 1996



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**Muslims' Contributions to Civilization (Institutions)**

A number of important educational and scientific institutions previously unknown in the ancient world have their origins in the early Islamic world, with the most notable examples being: the public hospital (which replaced healing temples and sleep temples) and psychiatric hospital, the public library and lending library, the academic degree-granting university, and the astronomical

observatory as a research institute (as opposed to a private observation post as was the case in ancient times).

The Guinness Book of World Records recognizes the University of Al Karaouine in Fez, Morocco as the oldest degree-granting university in the world with its founding in 859 CE by Fatima al-Fihri. Al-Azhar University, founded in

Cairo, Egypt in the 975 CE, offered a variety of academic degrees, including postgraduate degrees, and is often considered the first full-fledged university. The origins of the doctorate also dates back to the ijazat attadris wa 'l-ifttd ("license to teach and issue legal opinions") in the medieval Madrasahs which taught Islamic law.

**2014 December**  
 ديسمبر - كانون الأول

Safar - Rabi' I **1436**  
 صفر - ربيع الأول

Sunday الأحد	Monday الإثنين	Tuesday الثلاثاء	Wednesday الأربعاء	Thursday الخميس	Friday الجمعة	Saturday السبت
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14	15	16	17	18	19	20
22	23	24	25	26	27	28
21	22	23	24	25 Christmas Day (U.S. & Canada)	26 Boxing Day (Canada)	27
29	30	1 Rabi' I	2	3	4	5
28	29	30	31			
6	7	8	9			

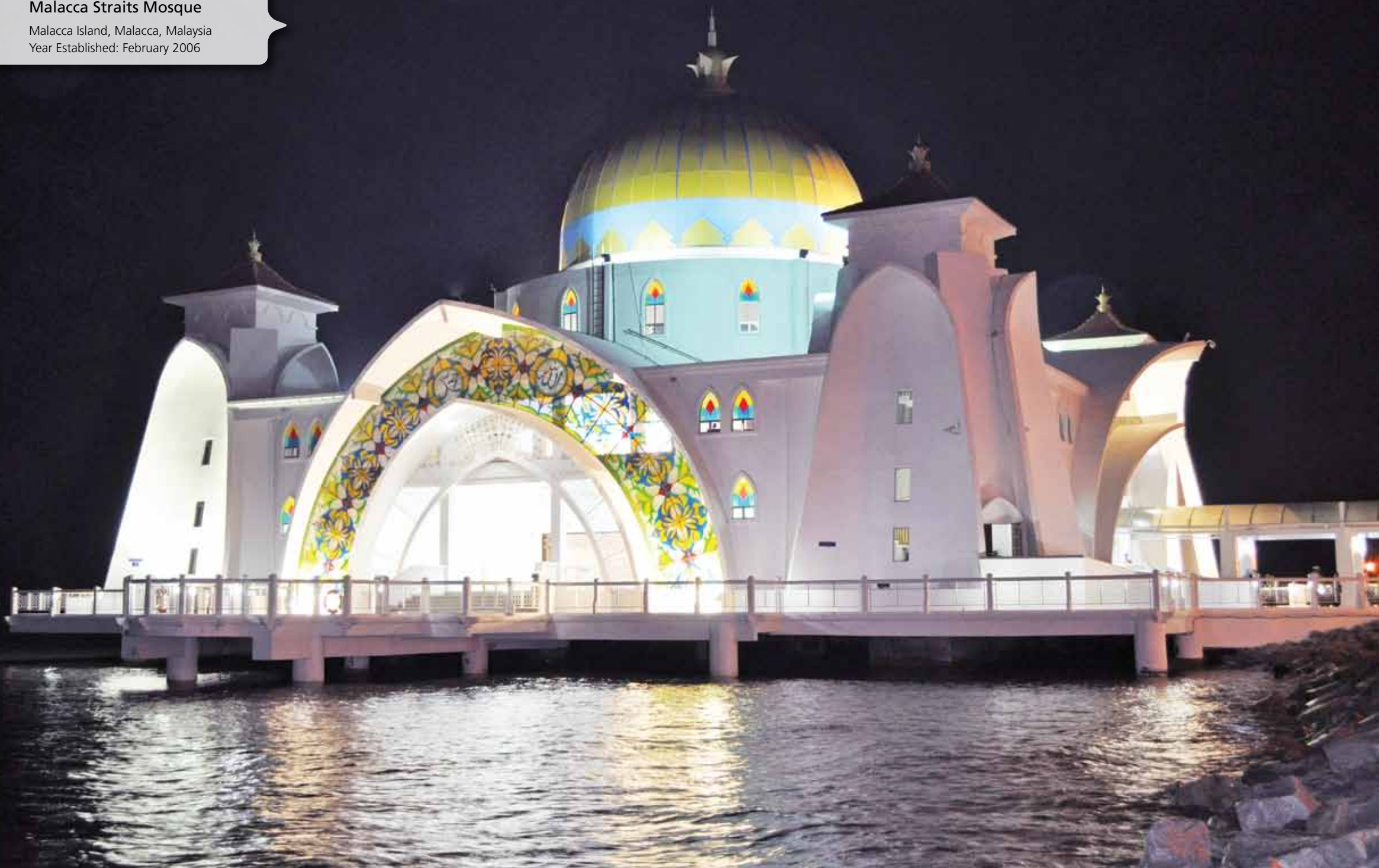
**NOVEMBER**

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**JANUARY 2015**

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**Muslims' Contributions to Civilization (Surgery)**

Many modern surgical instruments are of exactly the same design as those devised in the 10th century by a Muslim surgeon called al-Zahrawi. His scalpels, bone saws, forceps, fine scissors for eye surgery and many of the 200 instruments he devised are recognizable to a modern surgeon. It was he who discovered that catgut used for internal stitches dissolves away naturally

(a discovery he made when his monkey ate his lute strings) and that it can be also used to make medicine capsules. In the 13th century, another Muslim medic named Ibn Nafis described the circulation of the blood, 300 years before William Harvey discovered it. Muslim doctors also invented anesthetics of opium and alcohol mixes and developed hollow needles to suck cataracts from

eyes in a technique still used today.

**Abu al-Qasim Al-Zahrawi (Abulcasis)** (936 - 1013 AD): An Andalusian who is considered Islam's greatest medieval surgeon and one of the fathers of modern surgery.

**Book:** Medical Encyclopedia called Kitab Al-Tasrif.

**2015 January**  
 يناير - كانون الثاني

Rabi' I - Rabi' II **1436**  
 ربيع الأول - ربيع الثاني

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Al-Istiqlal Mosque Sarajevo, Bosnia Jan 2014



Ebu Beker Mosque Shkodër, Albania Feb 2014



Suleymaniye Mosque London, United Kingdom Mar 2014



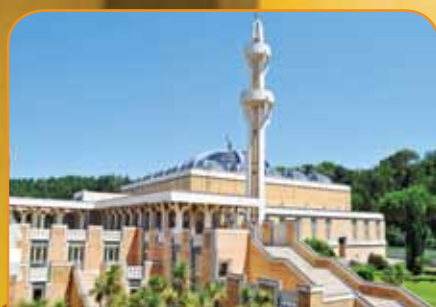
Island Mosque Jeddah, Saudi Arabia Apr 2014



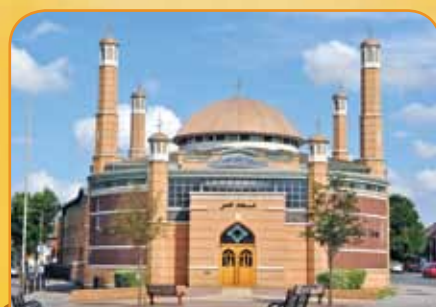
Rijeka Masjid Rijeka, Croatia May 2014



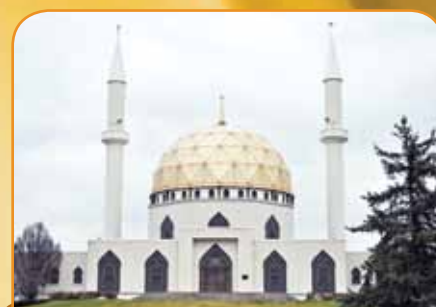
Masjid Zahir Alor Star, Kedah, Malaysia Jun 2014



Mosque of Rome Rome, Italy Jul 2014



Masjid Umar Leicester, United Kingdom Aug 2014



Islamic Center of Greater Toledo Toledo, OH, USA Sep 2014



Qatar Islamic Center Sarajevo, Bosnia Oct 2014



Zagreb Mosque Zagreb, Croatia Nov 2014



Gazi Husrev-Bey Mosque Sarajevo, Bosnia Dec 2014



Al-Anwar Designs • 601 Pheasant Run Dr, Murphy, TX 75094  
 Tel (972) 422-0946 • Fax (214) 594-2290 • www.AnwarDesigns.com • www.MuslimGuide.com

# Islam Around The World



1435-1436 Hijri