

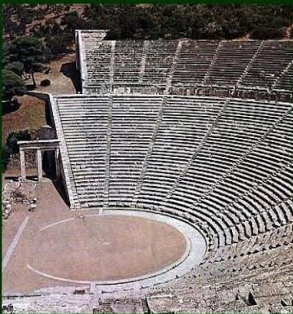
# THE HISTORY OF ARCHITECTURE

## FROM PREHISTORIC TO MODERN TIMES



the fifth Album:

## THE ANCIENT GREEK ARCHITECTURE



**Albums of characteristic examples for the Educational course**

**by Dr. Konstantin I.Samoilov**

Almaty, 2017

**This series of albums generated for information purposes of the Educational course "The General History of Architecture": 2 credits / 30 hours of lectures.**

Until the mid-19<sup>th</sup> century, examples are grouped by region. In this period, the phenomenon of a single world architectural process begins to manifest itself. Since the last third of the 19<sup>th</sup> century, examples have been grouped by decades.

**Thirty albums illustrate the following topics:**

- the 1<sup>st</sup> Album: EDUCATIONAL AND SCIENTIFIC-THEORETICAL SOURCES
- the 2<sup>nd</sup> Album: THE PREHISTORIC ERA'S ARCHITECTURE
- the 3<sup>rd</sup> Album: THE ANCIENT EGYPTIAN ARCHITECTURE
- the 4<sup>th</sup> Album: THE ANCIENT MESOPOTAMIAN ARCHITECTURE
- **the 5<sup>th</sup> Album: THE ANCIENT GREEK ARCHITECTURE**
- the 6<sup>th</sup> Album: THE ANCIENT ROMAN ARCHITECTURE
- the 7<sup>th</sup> Album: THE MEDIEVAL WEST EUROPEAN ARCHITECTURE
- the 8<sup>th</sup> Album: THE EUROPEAN RENAISSANCE'S ARCHITECTURE
- the 9<sup>th</sup> Album: THE MEDIEVAL MAGHREB'S, THE NEAR EASTERN AND THE CAUCASUS'S ARCHITECTURE
- the 10<sup>th</sup> Album: THE MEDIEVAL CENTRAL ASIAN ARCHITECTURE
- the 11<sup>th</sup> Album: THE MEDIEVAL CHINESE ARCHITECTURE
- the 12<sup>th</sup> Album: THE MEDIEVAL SOUTHEAST AND EAST ASIAN ARCHITECTURE
- the 13<sup>th</sup> Album: THE MEDIEVAL CENTRAL AMERICAN ARCHITECTURE
- the 14<sup>th</sup> Album: THE EASTERN EUROPE MIDDLE AGES AND NEW TIMES ARCHITECTURE
- the 15<sup>th</sup> Album: THE WESTERN EUROPEAN AND NORTH AMERICAN OF NEW TIMES ARCHITECTURE

- the 16<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1870's
- the 17<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1880's
- the 18<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1890's
- the 19<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1900's
- the 20<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1910's
- the 21<sup>st</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1920's
- the 22<sup>nd</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1930's
- the 23<sup>rd</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1940's
- the 24<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1950's
- the 25<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1960's
- the 26<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1970's
- the 27<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1980's
- the 28<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 1990's
- the 29<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 2000's
- the 30<sup>th</sup> Album: THE WORLD'S ARCHITECTURE OF THE 2010's

Examples are distributed in chronological order of the construct completion.

**Images sources are indicated directly near with illustrations on each page.**

Architects and companies listed on the basis of aggregate data from different sources (for some objects from various sources indicate different authors). About some buildings listed authors in the available sources has not yet been found.

The Author expresses his gratitude to Internet resources – <https://www.google.com> ; <https://www.wikipedia.org> – which to provide the ability to collect an information.

*The 5<sup>th</sup> Album's front cover:*

**The "Temple E", Selinunte, Sicily, 490 - 480 BC** - [http://www.bbsolaris.com/userfiles/images/foto-box/selinunte/selinunte\\_1.jpg](http://www.bbsolaris.com/userfiles/images/foto-box/selinunte/selinunte_1.jpg)

**The Corinthian order** - <https://ka-perseus-images.s3.amazonaws.com/9abc6734ad887e785272e207118b7d4788dcf7f4.jpg>

**The Theatre, Epidaurus, 4th century BC (Arch. Polykleitos the Younger)** -

<http://www.ronaldvandenboogaard.nl/joomla/images/stories/epidaurusdertig.jpg>

**The Erechtheion / Erechtheum temple, the Acropolis, Athens, 406 BC (Arch. may have been Mnesicles)** -

<http://prettythaiforawhiteguy.com/wp-content/uploads/2013/03/Erechtheion-Porch-of-the-Caryatids.jpg>

### **Purpose of the 5<sup>th</sup> Lecture:**

To study the basic features of the Greek Architecture in the Ancient period.

### **Tasks of the 5<sup>th</sup> Lecture:**

- To consider characteristic examples of specifically organized spaces and buildings;
- To accentuate the features of construction depending on the availability of building materials;
- To emphasize the difference between cult and dwelling buildings.

### **Tasks for the self-research work:**

1. Study the change in the nomenclature of buildings and structures during the evolution of the architecture of Ancient Greece
2. Analyze geometric parameters of main types of structures and buildings.

### **Questions for the self-preparation:**

1. Accentuate the features of different architectural orders
2. What is the structure of typical town's complexes in different periods?

### **Themes of abstracts (16 pages, 40 000 characters, A4 format):**

1. The evolution of the Greek Architecture in the Homeric and Archaic periods
2. The evolution of the Greek Architecture in the Classical period
3. The evolution of the Greek Architecture in the Hellenistic period

## **Examples for the 5<sup>th</sup> Lecture:**

**5.1** The Ancient Greece: the Geographical position and the Time-line

**5.2** Most types of temples and other variants: the First Hera's temple, Paestum; the Hera's temple, Olympia; the Apollo's temple, Bassai

**5.3** Greek architectural orders: the Doric order; the Ionic order; the Corinthian order

**5.4** The "Temple E", Selinunte, Sicily, 490 - 480 BC

**5.5** The Miletus city(example of "the Hippodamian city plan"), 480 BC

**5.6** The Theatre, Epidauros, 4th century BC (Arch. Polykleitos the Younger)

**5.7** The Acropolis / Cecropia and the Propylaea, Athens (the reconstruction), from 447 BC (Arch. Phidias as the Chief, Ictinus, Callicrates, Mnesicles)

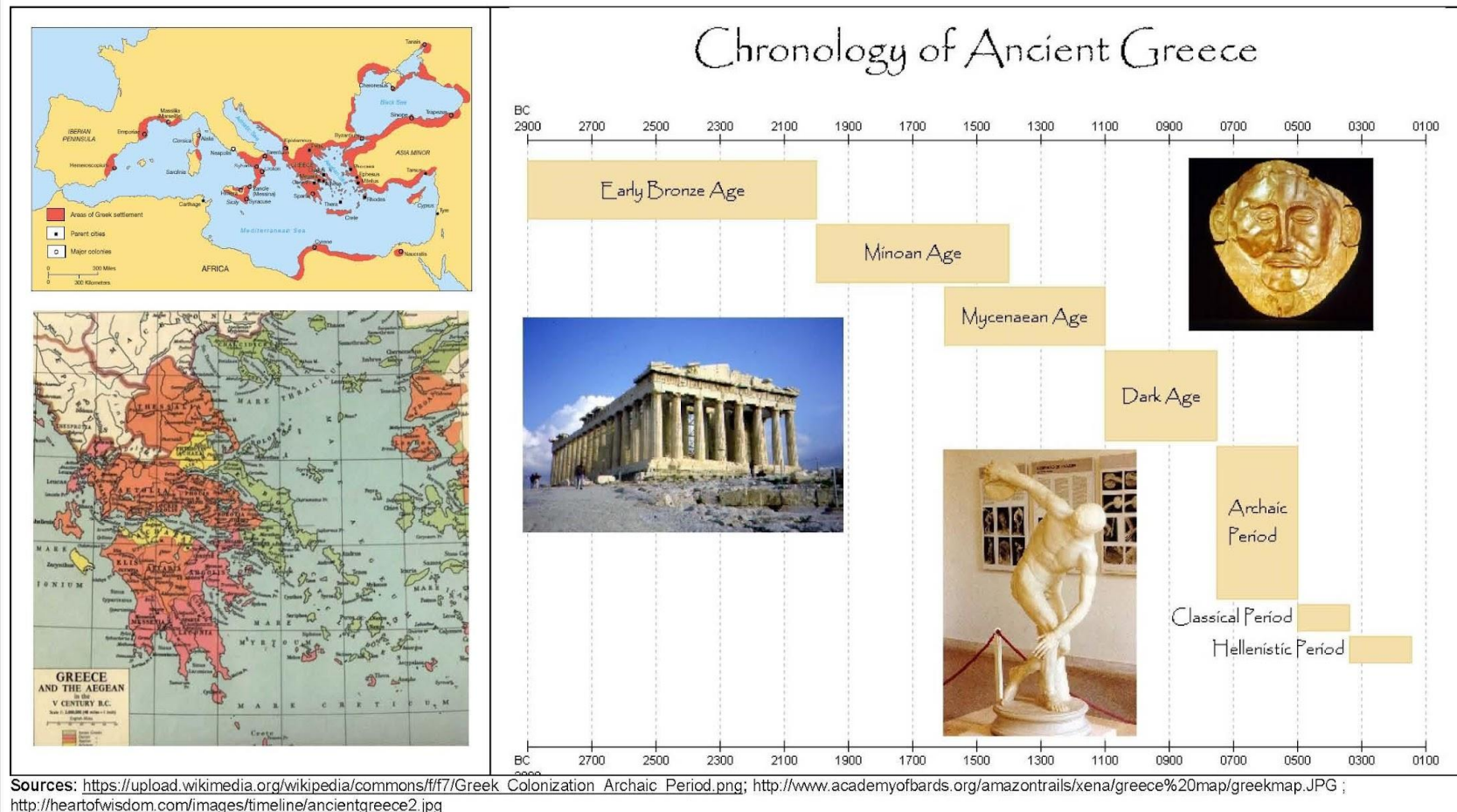
**5.8** The Parthenon temple, the Acropolis, Athens, 432 BC (Arch. Iktinos, Callicrates)

**5.9** The Temple, Segesta, Sicily, 420 BC

**5.10** The Erechtheion / Erechtheum temple, the Acropolis, Athens, 406 BC (Arch. may have been Mnesicles)

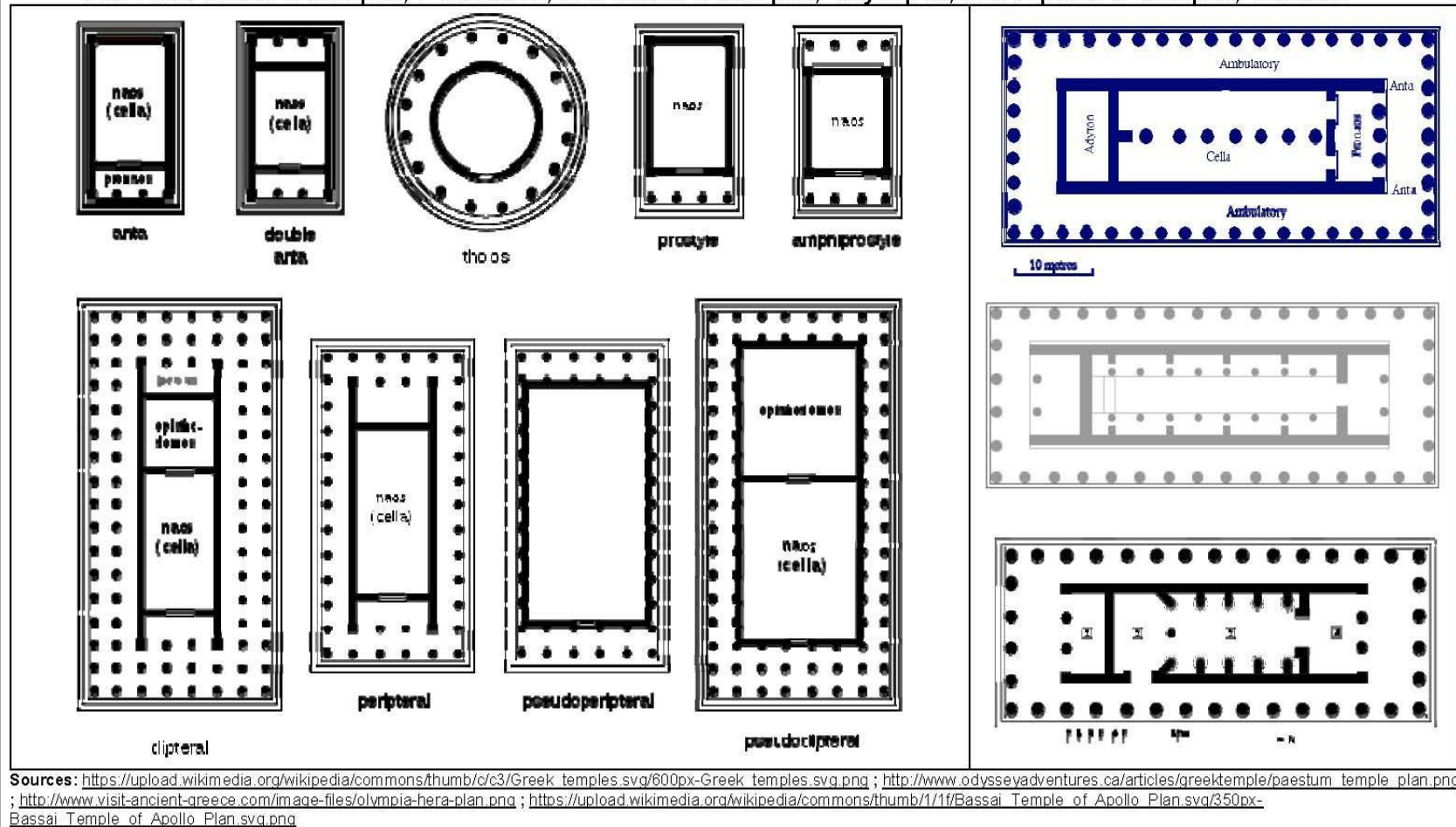


## 5.1 The Ancient Greece: the Geographical position and the Time-line



## 5.2 Most types of temples and other variants:

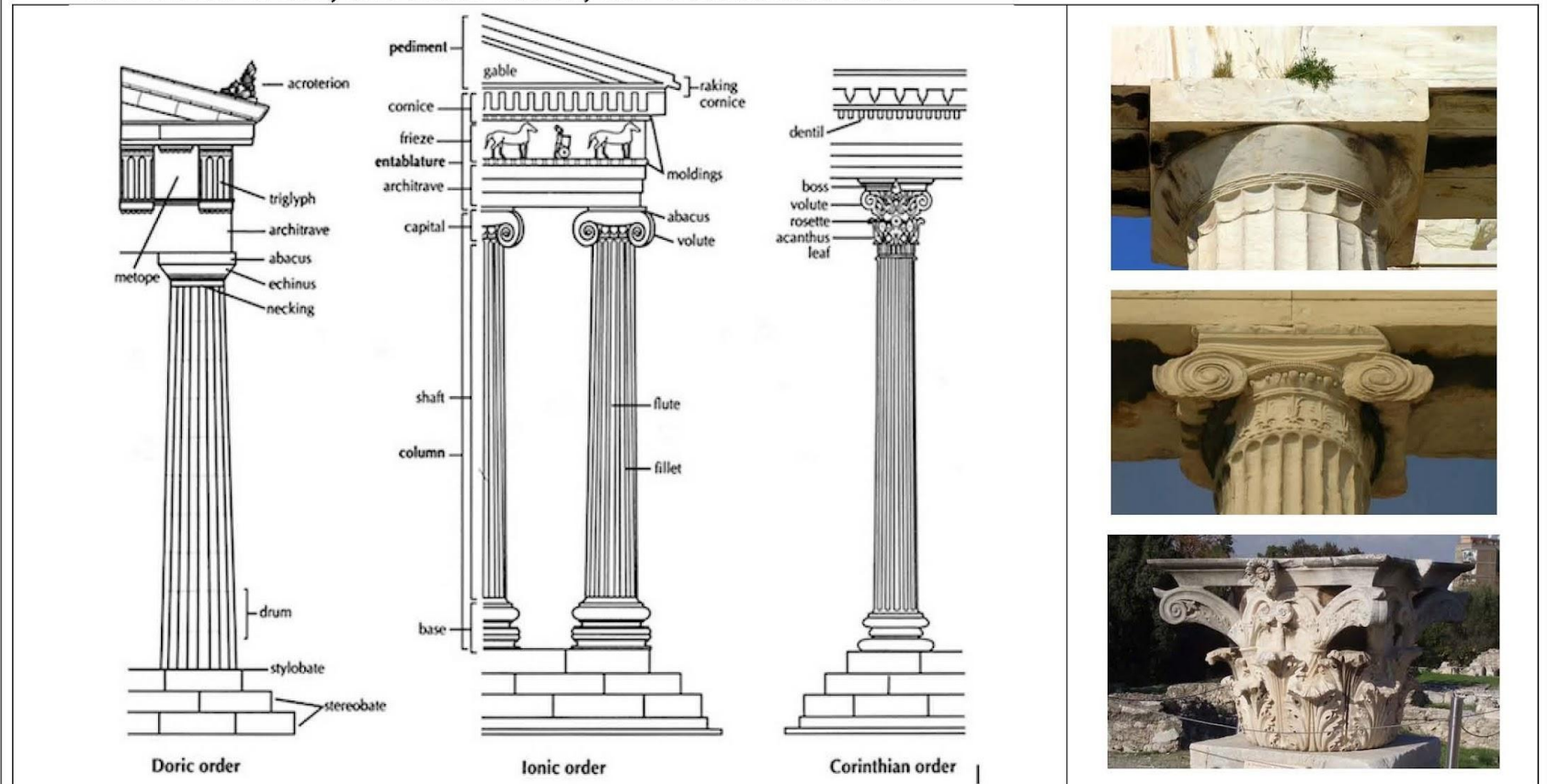
the First Hera's temple, Paestum; the Hera's temple, Olympia; the Apollo's temple, Bassai



Sources: [https://upload.wikimedia.org/wikipedia/commons/thumb/c/c3/Greek\\_temples.svg/600px-Greek\\_temples.svg.png](https://upload.wikimedia.org/wikipedia/commons/thumb/c/c3/Greek_temples.svg/600px-Greek_temples.svg.png); [http://www.odysseyadventures.ca/articles/greektemple/paestum\\_temple\\_plan.png](http://www.odysseyadventures.ca/articles/greektemple/paestum_temple_plan.png); <http://www.visit-ancient-greece.com/image-files/olympia-hera-plan.png>; [https://upload.wikimedia.org/wikipedia/commons/thumb/1/1f/Bassai\\_Temple\\_of\\_Apollo\\_Plan.svg/350px-Bassai\\_Temple\\_of\\_Apollo\\_Plan.svg.png](https://upload.wikimedia.org/wikipedia/commons/thumb/1/1f/Bassai_Temple_of_Apollo_Plan.svg/350px-Bassai_Temple_of_Apollo_Plan.svg.png)



### 5.3 Greek architectural orders: the Doric order; the Ionic order; the Corinthian order



Sources: <https://ka-perseus-images.s3.amazonaws.com/0683043c3719d0ff5715ba85314432b460f10952.jpg>; [http://3.bp.blogspot.com/-H\\_MuAQJVU9w/TtY8MJ7yDBI/AAAAAAAAAcQ/eH823lo3twU/s1600/DoricCapital.jpg](http://3.bp.blogspot.com/-H_MuAQJVU9w/TtY8MJ7yDBI/AAAAAAAAAcQ/eH823lo3twU/s1600/DoricCapital.jpg); <https://www.ancient.eu/uploads/images/384.jpg?v=1431035012>; <https://ka-perseus-images.s3.amazonaws.com/9abc6734ad887e785272e207118b7d4788dcf7f4.jpg>

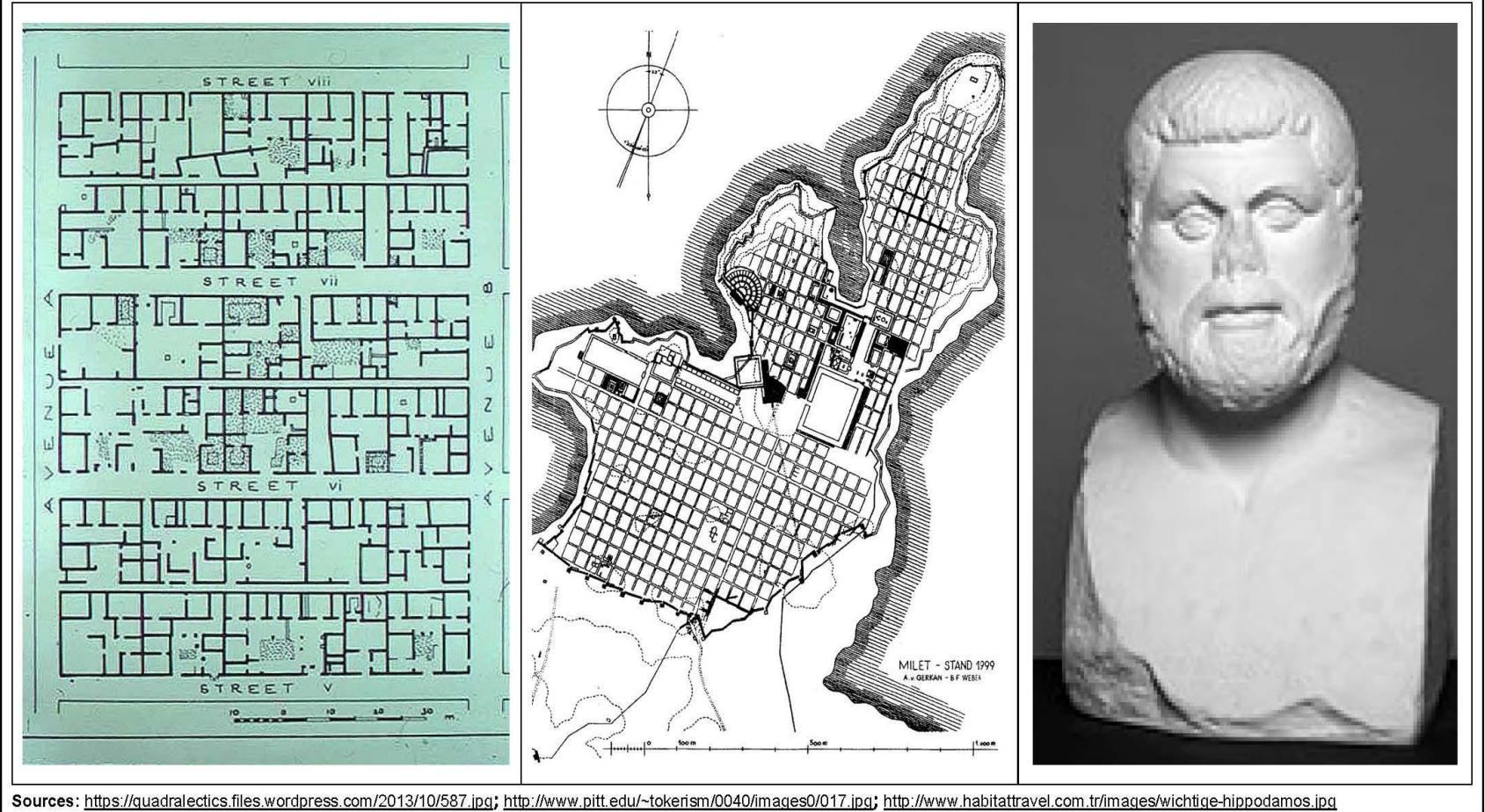
## 5.4 The "Temple E", Selinunte, Sicily, 490 - 480 BC



Sources: [https://upload.wikimedia.org/wikipedia/commons/6/61/Selinunte - Templi Orientali \(Temple E\) 18.JPG](https://upload.wikimedia.org/wikipedia/commons/6/61/Selinunte_-_Templi_Orientali_(Temple_E)_18.JPG) ; [http://www.bbsolaris.com/userfiles/images/foto-box/selinunte/selinunte\\_1.jpg](http://www.bbsolaris.com/userfiles/images/foto-box/selinunte/selinunte_1.jpg) ; [https://farm1.staticflickr.com/303/20228114669\\_0586895f26\\_h.jpg](https://farm1.staticflickr.com/303/20228114669_0586895f26_h.jpg) ; <http://woostergeologists.scotblogs.wooster.edu/files/2013/06/10.-Selinunte-column-runs-Steve-060713.jpg>

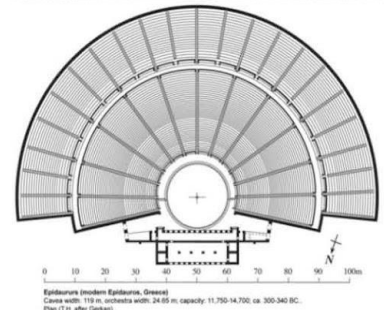
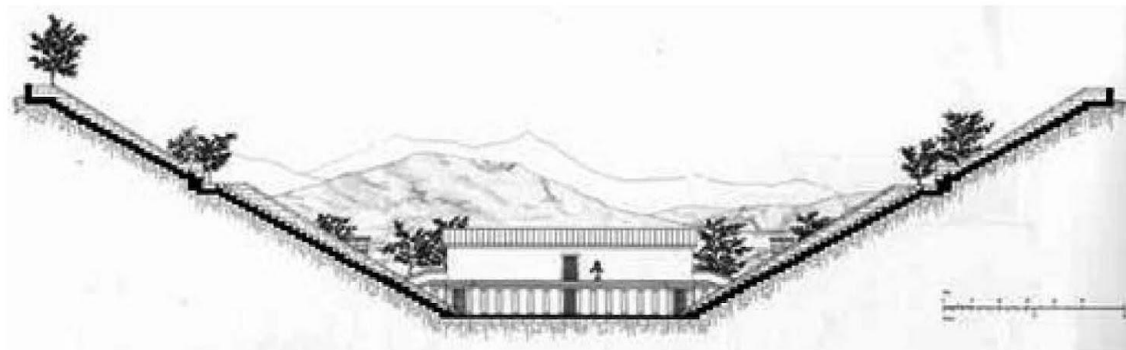
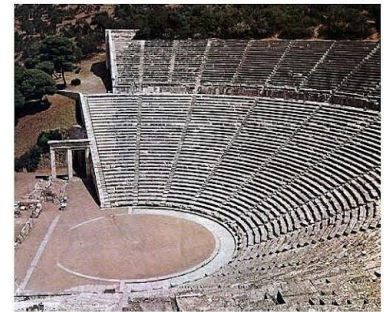


## 5.5 The Miletus city (example of “the Hippodamian city plan”), 480 BC



Sources: <https://quadralectics.files.wordpress.com/2013/10/587.jpg>; <http://www.pitt.edu/~tokerism/0040/images0/017.jpg>; <http://www.habitattravel.com.tr/images/wichtige-hippodamos.jpg>

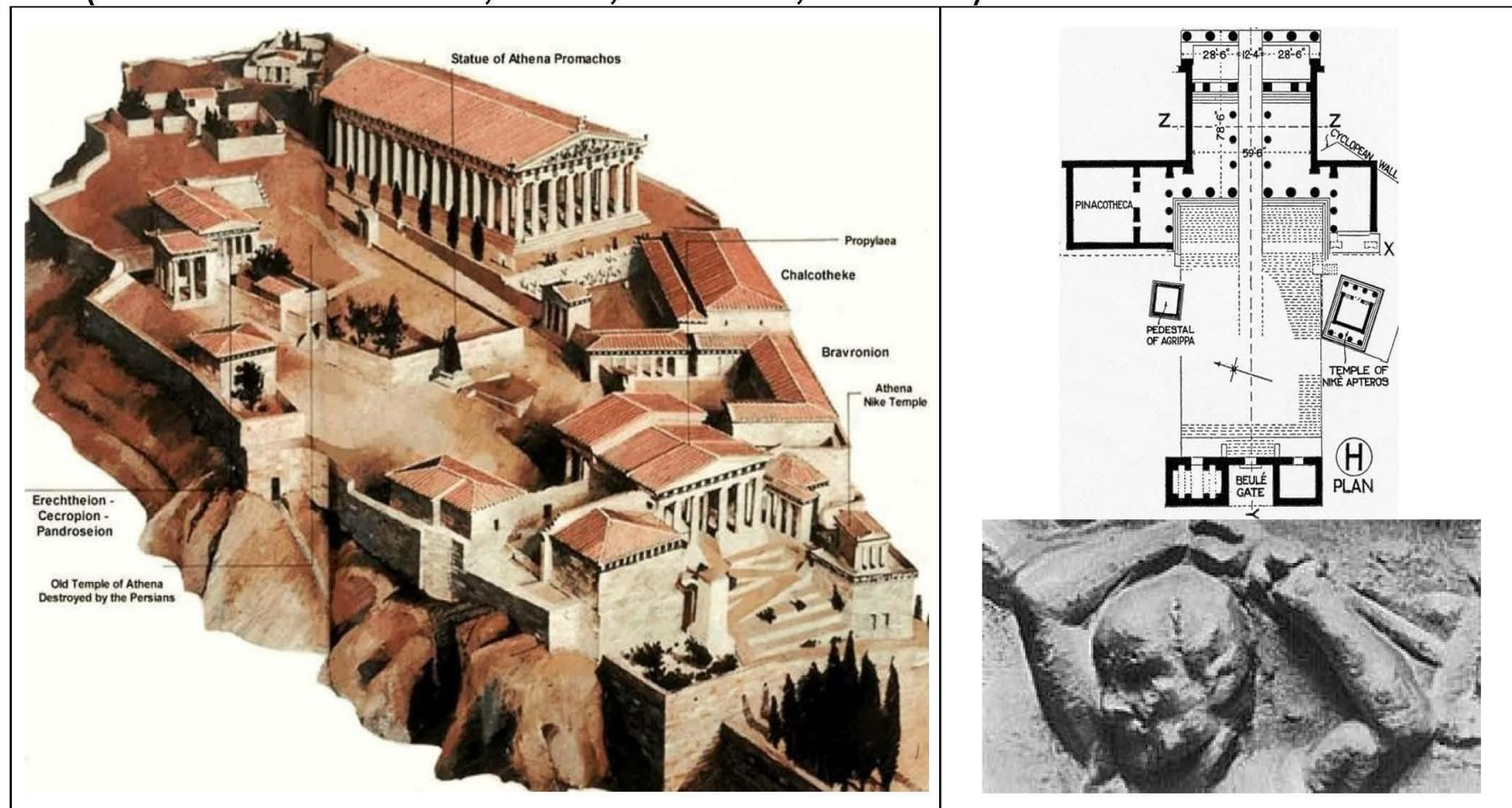
## 5.6 The Theatre, Epidaurus, 4th century BC (Arch. Polykleitos the Younger)



Sources: <https://www.landlifetravel.com/wp-content/uploads/2015/10/Archaeological-site-of-Epidaurus-Ancient-theater-Peloponnese-Greece-1.jpg> ;  
<http://www.kvl.cch.kcl.ac.uk/THEATRON/theatres/epidaurus/assets/images/epiimg14.jpg> ; <http://www.ronaldvandenboogaard.nl/oomla/images/stories/epidaurusdertig.jpg> ;  
<https://www.whitman.edu/theatre/theatretour/epidaurus/images/large%20images/epidaurus.plan.jpg>



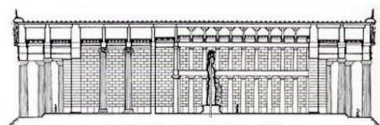
## 5.7 The Acropolis / Cecropia and the Propylaea, Athens (the reconstruction), from 447 BC (Arch. Phidias the Chief, Ictinus, Callicrates, Mnesicles)



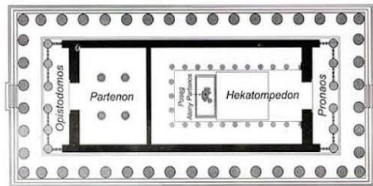
Sources: [https://classconnection.s3.amazonaws.com/139/flashcards/1167139/jpg/athenian\\_acropolis1330506967704.jpg](https://classconnection.s3.amazonaws.com/139/flashcards/1167139/jpg/athenian_acropolis1330506967704.jpg); [https://c1.staticflickr.com/5/4141/5412400674\\_3256867c43\\_b.jpg](https://c1.staticflickr.com/5/4141/5412400674_3256867c43_b.jpg); <https://upload.wikimedia.org/wikipedia/ru/thumb/5/53/Phidias2.jpg/220px-Phidias2.jpg>



## 5.8 The Parthenon temple, the Acropolis, Athens, 432 BC (Arch.Iktinos, Callicrates)



Longitudinal Section / Sección Longitudinal



Plant Distribution / Planta de Distribución



Sources: [http://employees.oneonta.edu/farberas/arth/Images/109images/greek\\_archaic\\_classical/parthenon/parthenon.jpg](http://employees.oneonta.edu/farberas/arth/Images/109images/greek_archaic_classical/parthenon/parthenon.jpg) ; <http://4.bp.blogspot.com/-eNdY4I7nS1E/ThDdDnce-CI/AAAAAAAAAJI/FbiNMGhZHns/s1600/ParthenonPlan3.jpg> ; [https://upload.wikimedia.org/wikipedia/commons/c/c7/Parthenon\\_XL.jpg](https://upload.wikimedia.org/wikipedia/commons/c/c7/Parthenon_XL.jpg) ; [https://admissions.vanderbilt.edu/insidadores/manage/wp-content/uploads/Athena\\_Parthenos\\_LeQuire.jpg](https://admissions.vanderbilt.edu/insidadores/manage/wp-content/uploads/Athena_Parthenos_LeQuire.jpg)

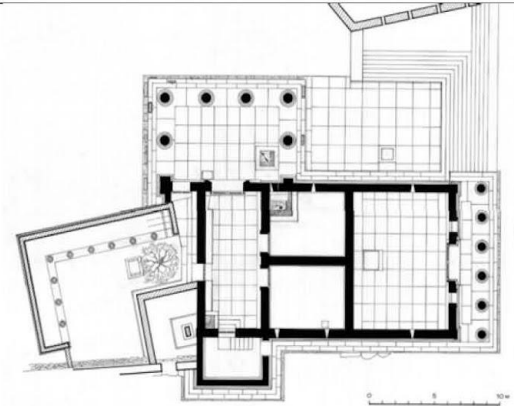
## 5.9 The Temple, Segesta, Sicily, 420 BC



Sources: <http://arkeofili.com/wp-content/uploads/2015/08/tap5.jpg>; [http://www.livius.org/site/assets/files/2986/segesta\\_temple10.jpg](http://www.livius.org/site/assets/files/2986/segesta_temple10.jpg)



## 5.10 The Erechtheion / Erechtheum temple, the Acropolis, Athens, 406 BC (Arch. may have been Mnesicles)



Sources: [http://sasgreekart.pbworks.com/f/1228403731/athens\\_erechtheion\\_1.jpg](http://sasgreekart.pbworks.com/f/1228403731/athens_erechtheion_1.jpg) ; <http://www.stoa.org/athens/sites/acroerechtheion/image/p08021.jpg> ;  
<https://static1.squarespace.com/static/57b9b98a29687f1ef5c622df/t/58179d7346c3c4f1cb2e1473/1477942650926/Erechtheion> ;  
[http://www.y sma.gr/static/images/3\\_3\\_ER\\_sxedio.jpg](http://www.y sma.gr/static/images/3_3_ER_sxedio.jpg) ; <http://prettythaiforawhitequy.com/wp-content/uploads/2013/03/Erechtheion-Porch-of-the-Caryatids.jpg>

## **Recommended educational and scientific-theoretical sources:**

1. *Greek architectural orders / Dr. Jeffrey A. Becker. - URL: <https://www.khanacademy.org/humanities/ancient-art-civilizations/greek-art/beginners-guide-greece/a/greek-architectural-orders>*
2. *Doric order / From Wikipedia, the free encyclopedia. - URL: [https://en.wikipedia.org/wiki/Doric\\_order](https://en.wikipedia.org/wiki/Doric_order)*
3. *Ionic order / From Wikipedia, the free encyclopedia. - URL: [https://en.wikipedia.org/wiki/Ionic\\_order](https://en.wikipedia.org/wiki/Ionic_order)*
4. *Corinthian order / From Wikipedia, the free encyclopedia. - URL: [https://en.wikipedia.org/wiki/Corinthian\\_order](https://en.wikipedia.org/wiki/Corinthian_order)*
5. *Acropolis of Athens / From Wikipedia, the free encyclopedia. - URL: [https://en.wikipedia.org/wiki/Acropolis\\_of\\_Athens](https://en.wikipedia.org/wiki/Acropolis_of_Athens)*
6. *Parthenon / From Wikipedia, the free encyclopedia. - URL: <https://en.wikipedia.org/wiki/Parthenon>*
7. *Erechtheion / From Wikipedia, the free encyclopedia. - URL: <https://en.wikipedia.org/wiki/Erechtheion>*
8. *Epidaurus / From Wikipedia, the free encyclopedia. - URL: <https://en.wikipedia.org/wiki/Epidaurus>*
9. *Selinunte / From Wikipedia, the free encyclopedia. - URL: <https://en.wikipedia.org/wiki/Selinunte>*
10. *Segesta. - URL: <http://www.bestofsicily.com/segesta.htm>*
11. *Hippodamus of Miletus / From Wikipedia, the free encyclopedia. - URL: [https://en.wikipedia.org/wiki/Hippodamus\\_of\\_Miletus](https://en.wikipedia.org/wiki/Hippodamus_of_Miletus)*

## Briefly about the Author



# Konstantin I.SAMOILOV

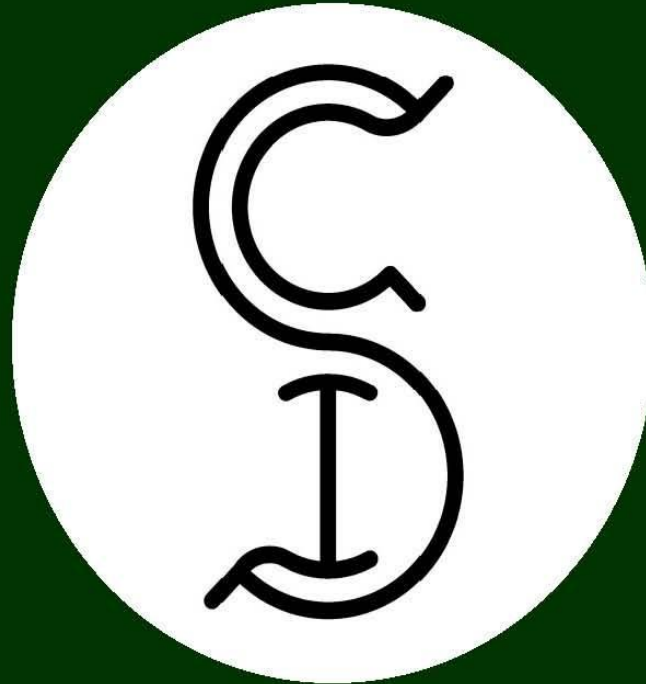
High Doctorate (Arch) – 2008,  
Doctor of Sciences (Arch) – 2004,  
Candidate of Sciences / eq. PhD(Arch) – 1990,  
Dipl.Arch. / eq. MArch – 1983,  
Dipl.Tech.Arch. / eq. BArch – 1977



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