



# DELIVERABLE

**Project Acronym:** thinkMOTION  
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## D7.1–First release of who-is-who

**Revision:**4

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A handwritten signature in blue ink that reads "Marco Ceccarelli".

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Dissemination Level		
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C	Confidential, only for members of the consortium and the Commission Services	

## Revision History

Revision	Date	Author	Organisation	Description
1	12 dec 2011	M. Ceccarelli	UCAS	First draft
2	4 Jan 2012	M. Ceccarelli	UCAS	Second draft
3	13 Jan 2012	M. Ceccarelli	UCAS	Third draft
4	23 Jan 2012	M. Ceccarelli	UCAS	Fourth draft

### **Statement of originality:**

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

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## 1. Introduction

The aim of WP7 “**Collection and systematisation of information about important persons in mechanism science**” is collecting and providing information about important persons, authors and inventors to give insight into the richness of European cultural heritage.

The tasks in WP7 are as follows:

### **Task 7.1: Persons and their work in history of mechanism science**

7.1.1. Identification of important persons (depends on country, age etc.)

7.1.2. Collecting and storing their vitas in a uniform way

7.1.3. Compilation of a European Who-is-Who in the field of motion systems

### **Task 7.2: Detection of interdependencies between important persons**

7.2.1. Identification of teacher-student-relations

7.2.2. Identification of places of activities (countries, schools, companies etc. to detect influences)

7.2.3. Detection of interdependencies between inventions and resulting technical developments

7.2.4. Detection of influences of historical circumstance in Europe on inventions and technical developments

### **Task 7.3: Historical evaluation and classification of inventions and resulting developments**

7.3.1. Identification of criteria for the evaluation and classification of the impact of inventions for the technology development in Europe from the early medieval times

7.3.2. Cross-linking person data sets and content from WP5

7.3.4. Development and online presentation of timelines for persons, inventions, publications, etc.

Thus, the tasks for WP7 are recognized in making a database on Who-is-Who in Mechanism and Machine Science (MMS) with the aim to identify significant personalities and institutions in the European History of MMS and at the same time to express the links among them and towards the MMS achievements. Thus, in agreement with project plans expected results are planned in a proper database on Who-is-Who in MMS containing elements for the above-mentioned evaluation of significance and influence in the European History of MMS.

In particular, the activities for WP7 have been developed through two different aspects:

- identification of criteria and biography metadata sets
- production of results for the above-mentioned WP7 tasks

Regarding with criteria, after discussion and experience exchanges among project partners, the following general criterion has been agreed for an identification of suitable biographies for Who-is-Who collection:

Person / institution, who gave a relevant contribution in MMS/Mechanism Design in her/his surrounding (institution, country, field). A relevant contribution can be considered when documented with a well reputation and circulation in the above-mentioned frames both in time and geography.

Thus, the production of Who-is-Who biographies has been planned in terms of

- Persons
- Institutions (teaching institutions, research centers, science museums, enterprises, etc.)
- European countries (our countries, but also for some other ones)
- Time distribution (covering several centuries of history)

The above general criterion has been motivated to give the possibility to identify Who-is-Who entries as based on knowledge and experience of project partners that can be centered on the History of Mechanism and Machine Science both in time periods and geographical areas within the wide European History of MMS.

The Who-is-Who collection has been worked out progressively during the project development up to the today list that is reported in Annex 1. It has been assumed that the Who-is-Who collection will be a sub-set of the total list biographies that will be inputted during the project production as selected with the above criterion applied by each project partner and checked by the WP7 leader.

An additional criterion with topics indicators has been elaborated both to characterize the Who-is-Who selection as for task 7.1 and to evaluate the characteristics within the Who-is-Who selection as for tasks 7.2 and 7.3. Those topics indicators as in the Annex 2 can be used in the description area of the editor page in ProDB (database of the DMG-Lib) and however, they can be considered a due result for tasks 2 and 3.

The production results, with biographies and their characteristics, has been completed also with publications that summarize some of the identified developments and report some of the elaborated evaluations as related to tasks 7.2 and 7.3. The list of publications by project partners that refer to WP7 is reported in Annex 3.

Although it can be considered that results so-far obtained for WP7 are not yet of a proper amount, it is believed that the project partners have now well planned the future activities to fulfill the expected goals for WP7. Considerable preliminary efforts and work have been necessary to clarify the frames and to deepen the knowledge and experience for developing activities and achieving the here-in described results in WP7.

## **2. Results**

Results are obtained to fulfill the WP7 tasks as described in the following.

### **2.1 Results for task 7.1**

Suitable biographies have been identified by each partner as reported in Annex 1 as referring to partner ability and knowledge not only of topics and geographical areas of their surroundings. Most of these biographies will be worked out properly during the remaining of the project time in order to generate the required information to be inputted to DMG-Lib through the defined metadata, (see Annex 4), with links to items that can substantiate the Who-is-Who character. In particular, it has been agreed to differentiate general biographies from Who-is-Who biographies by having the latter with more details and several items linked to them. Although required by Europeana, it is not always possible to have an image of a person (that is used for the timeline representation for the general presentation of Who-is-Who as in Annex 5). In those cases it has been proposed to use an achievement image that can recall the corresponding biography.

In Annex 4 the current metadata form is reported as used to input biographies. Adjustments will be

made in a near future to add few significant metadata topics indicators (as described in 2.2) both to characterize the Who-is-Who quality and to evaluate their relationships and achievements.

In Annex 6 samples of biographies are reported to show typical contents. In general, biography data have been obtained by searching in history archives that are available in libraries and in internet web sites, but also by discovering biography data from original documents and authors' descendents. Biographies are then generated by reporting main data and characteristics that can out light the Who-is-Who quality of the entry.

Summarizing, the Who-is-Who collection is planned for a subset of the total required 1,500 biographies. By the end of January 2012 the number of detailed biographies is 566. There are still some detailed biographies which need to be updated with images or more detailed vita information but most of them can be accepted as items. The total of core metadata sets for persons is 1044 as indicated in Annex 1. Those metadata sets in pipeline must be completed to become detailed biographies.

## **2.2 Results for task 7.2**

Relationships and interdependencies have been identified with suitable selection of biographies and they have been worked out with biography data by using both descriptions and cross-links that are possible in DMG-Lib. In addition, the topics indicators in Annex 2 have been used within the description area of the metadata editor. In particular, the following keywords will be introduced as 'what' labels in the ProDB editor for biographies:

- teacher
- student
- inventor
- designer
- founder

With the functions of where and when, as well with the area for description in metadata biography ProDB editor, they will give a direct description of the significance of a biography mainly, but not only, in terms of task 7.2.

## **2.3 Results for task 7.3**

Historical evaluation and classification of achievements have been worked out thorough elaborations of suitable data for biography inputs, description by using keywords and topics indicators, timeline flowchart, and publications of specific studies, as reported in the Annexes.

## ANNEX 1- list of planned biographies for Who-is-Who

From UCAS team

Alberti, Leon battista	1404-1472	Panetti Modesto	1875-1957	Gemma Frisio Rainer	1508-1555
Aleotti, G. B.	1546-1636	Papacino d'Antonj	Alessandro Vittorio	Giocondo, Fra' Giovanni	1433-1515
Allievi, Lorenzo	1856-1941	1714-1786		Girolamo da Treviso	1497-1544
Anastasi, Anastasio	1877-1969	Peruzzi, Baldassarre	1481-1536	Lanci, Baldassarre	1510-1571
Ancona, Ugo	1867-1936	Puccini, Bernardo	1521-1575	Lazesio Francesco Feliciano	
Barbaro Daniele	1514-1570	Ramelli, Agostino	1531-1607	Oddi, Muzio	1569-1639
Bartolomeo Neroni il Riccio	1500-171	Ravizza Giuseppe	1811-1885	Orsini Latino	
Battaglini Giuseppe	1826-1894	Rovetta Alberto		Perini Lodovico	1685-1731
Becher Gian Giacomo		Saminati Benedetto	1555-	Piccolomini, Alessandro	1508-1579
Bellavitis, Giusto	1803-1880	Santini Paolo		Pietro dell'Abaco	
Bianchi Giovanni		Saviotti Carlo		Pigafetta, Filippo	1534-1604
Biringucci, Vanoccio	1480?-1537	Sella Quintino	1827-1884	Poleni Giovanni	1685-1761
Borgnis Giuseppe Antonio	1781-1863	Tartaglia Nicolò	1499-1557	Pomodoro Giovanni	
Boscovich Ruggero	1711-1787	Tessari, Domenico	1837-1909	Pugno G. M.	
Branca, Giovanni	1571-1645	Torricelli Evangelista	1607-1647	Regiomontano Giovanni	1436-1476
Brunelleschi, Filippo	1377-1446	Valturio, Roberto	1413-1483	Sansovino, Jacopo	1486-1570
Cappa, Scipione	1857-1910	Vegezio Flavio Renato		Schreck Johann	1576-1630
Cardano, Girolamo	1501-1576	Venturi Giovan Battista	1746-1822	Zonca Vittorio	1568-1602
Cataneo Girolamo	1564?	Vitruvio		Verbiest Ferdinand	1623-1688
Cattaneo, Pietro	1533	Zonca, Vittorio	1568-1602		
Cavalli Ernesto				Enterprises	
Il Cecca	1458-1499	Alberti, Alberto	1525/26-1598	FIAT	
Cerruti Valentino	1850-1909	Alberti Giuseppe Antonio		Alfa Romeo	
Cerruti, Ugo		Antonio da Sangallo il Giovane	1484-	Ansaldo	
Cesariano, Cesare	1475-1543	1546		DUCATI	
Chelini Domenico	1802-1878	Appiano Pietro	1495-1552?	APRILIA	
Commandino, Federico	1509-1575	Armadio de' Servi,		COMAU	
Del Monte, Guidobaldo	1545-1607	Agricola		COLOMBO FILIPPETTI	
Di Giorgio Martini Francesco	1439-1501	Aloisio da Milano		PIAGGIO	
di Jacopo, Mariano il Taccola	1381? - 1458	Anonimo della Guerra Ussita		OLIVETTI	
Erone		Anonimo di Monaco			
Ferraris, Galileo	1847-1897	Antonio Carraro		List of Institutions -Centri di ricerca	
Filone		Antonio de Galles		LARM	
Fioravanti, Aristotele	1420-1486	Antonio Francesco Averlino, il Filerete		Centro Ricerche Fiat CRF	
Fontana, Giovanni	1540-1614	1400-1469		Centro Piaggio	
Frisi Paolo	1728-1784	Bartoli Cosimo	1503-1572	Centro Olivetti	
Galilei, Galileo	1564-1642	Battista da Sangallo il Gobbo,	1496-	CISM	
Ghiberti, Bonaccorso	1738-1455	1548		GMA	
Giorgini, Gaetano	1795-1874	Beda		IFTtoMM	
Giulio, Carlo Ignazio	1803-1859	Benedetti, Giovan Battista	1530-1590		
Grandi Guido	1671-1742	Benvenuto della Volpaia	1486-1532	Libraries	
Guido da Vigevano,	1280-1349(?)	Boninsegni, Domenico		Boaga	
Leonardo da Vinci	1452-1519	Cattaneo, Pietro	1533	Montecasino	
Maggi, Gian Antonio	1856-1937	Ceneri Angelo Maria			
Masi Francesco		Codazza Giovanni	1816-1877	- musei delle scienze	
Maurolico, Francesco	1494-1575	Danti Egnazio	1536-1586	Museo Galileo a Firenze	
Mozzi Giulio		de' Servi Armadio		Museo Nazionale della Scienza e della	
Ovazza, Elia		de Ursis Sabatino	1575-1620	Tecnologia Leonardo da Vinci	
Pacioli, Luca	1446/7-1517	dell'Abaco Pietro		(Milano)	
Padelletti, Dino	1887-	della Quercia Iacopo	1374-1438	Museo Storico della Motorizzazione	
Padova, Ernesto	1845-18	Dionisio di Viterbo		Militare (Roma)	
		Durantino Francesco Lucio		Museo Moto Guzzi (Mandello del	
		Fabbri Ottavio		Lario)	

Museo didattico della seta (Como)	Ferdinando Fuga	BIO ADDIZIONALI ITALIANI	
Museo della Fondazione Antica Zecca di Lucca	Luigi Vanvitelli Luigi Palmieri Giovanni Antonio Rizzi Zannoni, Luigi e Salvatore De Pace 1854	Sergio della Valle Antonio Trentadue Guido Belforte Aldo Rossi Giorgio Diana Emilio Massa Arrigo Vallatta Giovanni Scotto lavina Casati Paolo D'Embser Giovan Battista Fontana Domenico Galli Marco Peverone Giovan Francesco Viviani Quirico	
- Schools of Engineering	Officine Pietrarsa Cantieri Castellammare Acciaierie Mongiana Seterie San Leucio		
Politecnico di Milano			
Politecnico di Torino			
Politecnico di Bari			
University of Pisa			
University of Padova			
University of Roma	SUD ITALIA - ETA' MODERNA		
University of Napoli	Pericle Ferretti		
University of Bologna	Vincenzo Stoppelli		
University of Genova	Vincenzo Franciosi Sergio Stefanutti Angelo Raffaele Guido		
- Departments	Mario Taddei		
DIMSAT	Umberto Nobile	BIO ADDIZIONALI ed EUROPEI	
DISDRA University Sapienza of Rome	Luigi Pascale Luigi Napolitano Marcello Martini Fam. Grimaldi (armatori) Fam. Cafiero (armatori)	Babbage Charles Bell Giovanni Bessnitzer Ulrich Bourguignon P. Burmester Ludwig Erns Hans Chasles Michel Coriolis Gaspard-Gustave d'Aurillac Gerberto de Bar Le Duc Jean Errard de Honnecourt Villard de la Hire Philippe Diderot Denis Agustín de Betancourt y Molina Durer Albrecht Farish William Hachette Jean Nicolas Pierre Haton de la Goullepierre Jazari al Kircher Atanasius Kyeser Konrad Lagrange Joseph-Louis Landsberg von Herrard Lanz y Zaldívar José María Le Rond D'Alembert Jean Baptiste Olaio Magno Monge Gaspard Banu Musa Navier Claude Louis Marie Henri Poinsot Louis Poncelet Jean-Victor Rankine McQuorn Wi Sadi Carnot Nicolas Léonard Savary Félix Schopper Hartmann Schott Gaspard Stevin Simon Watt James Willis Robert Schreck Johann Verbiest Ferdinand	
- ANTICITÀ GRECO-ROMANA			
Apollodoro di Damasco			
Apollonio di Perge			
Archimede			
Archita	428 a.C.-347		
a.C Aristarco di Samo	- Personalità IFToMM 2008-2011		
Artemone di Clazomene	Marco Ceccarelli (Italy)		
Ateneo	Yoshiho Nakamura (Japan)		
Chersifrone	Carlos Lopez-Cajùn (Mexico)		
Ctesibio	III sec. a.C. Joe Rooney (UK)		
Dedalo	Veniamin I. Godfarb (Russia)		
Demetrio Poliorcete	Theodor Ionescu (Romania)		
Diade	Datong Qin (China-Beijing)		
Dionisio d'Abido	Barham Ravani (USA)		
Dionisio d'Alessandria	James Trevelyan (Australia)		
Enea il Tattico	Miroslav Vavclavik (Czech Rep)		
Epimaco l'Ateniese	Kristoff Kedzior (Poland)		
Eratostene	Ken J. Waldron (USA)		
Erone	Doina Pisla (Romania)		
Erone			
Euclide	Daizhiong SU (UK)		
Eupalino	Karol Miller (Australia)		
Filone d'Atene	Burkhard Corves (Germany)		
Filone di Bisanzio	G.K.Ananthasuresh (India)		
Filone di Bisanzio	Javier Cuadrado (Spain)		
Frontino	Marian Wiercigroch (UK)		
Ippodamo	Irina Demiyanyushko (Russia)		
Metagene	Zbigniew Keszy (Poland)		
Pitagora	I-Ming Chen (Singapore)		
Polido di Tessaglia	Rainer Nordmann (Germany)		
Pseudo-Aristotele	J.S. Rao (India)		
Sostrato di Cnido	Ion Visa (Romania)		
Talete di Mileto	Madhu Raghavan (USA)		
Veranzio Fausto	Jianbin Luo (China-Beijing)		
Vitruvio	Leila Notash (Canada)		
Zopiro	Juan Carlos Garcia-Prada (Spain) Hanfried Kerle (Germany)		
REGNO DELLE DUE SICILIE	Andri Walicki (Poland)		
Commandino, Federico 1509-1575	A. J. Klein-Breteler (Netherlands)	Loria Gino	1862-1954
Giuseppe Mercalli		Promis Carlo	1808-1873



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### From IUT team

<b>ARMENGAUD</b>	Charles	1813	1893	Pierre Augustin	1732	1799	
<b>ADER</b>	Clément	1841	1925	<b>CARTWRIGHT</b>	Edmund	1743	1823
<b>ARKWRIGHT</b>	Richard	1732	1792	<b>CAVE</b>	François	1794	1875
<b>ARNOUX</b>				<b>CELESTIN</b>	Gérard	1821	1885
Jean-Claude-Républicain		1792	1866	<b>CHAPPE</b>	Claude	1763	1805
<b>BARBER</b>	John	1734	1801	<b>CHAZALLAN</b>	Rémi	?	?
<b>BARTON</b>	John	?	?	<b>CITROEN</b>	Gustave-André	1878	1935
<b>BEAU de ROCHAS</b>	Alphonse	1815	1893	<b>COCKERELL</b>	Gustaf	1910	1999
<b>BELIN</b>	Édouard	1876	1963	<b>CORNU</b>	Paul	1881	1944
<b>BENOIT</b>	Charles	1949		<b>COTTON</b>	Aimé	1869	1951
<b>BERGES</b>	Aristide	1833	1904	<b>COUVREUX</b>	Alphonse	1820	1890
<b>BERTIN</b>	Louis-Emile	1840	1924	<b>CROMPTON</b>	Samuel	1753	1827
<b>BESSON</b>	Jacques	1540	1576	<b>CROS</b>	Charles	1842	1888
<b>BICH</b>	Marcel	1914	1994	<b>CUGNOT</b>	Nicolas-Joseph	1725	1804
<b>BLENKINSOP</b>	John	1783	1831	<b>DAMBLANC</b>	Louis	1889	1969
<b>BLERIOT</b>	Louis	1872	1936	<b>D'AURILLAC</b>	Gerbert	?	?
<b>BOLLEE</b>	Amédée	1867	1926	<b>DAVELUY</b>	René	1863	1939
<b>BOLLEE</b>	Léon	1870	1913	<b>DE CAUS</b>	Salomon	1576	1626
<b>BOOTH</b>	Hubert Cecil	1871	1955	<b>DE COLMAR</b>			
<b>BOUCHON</b>	Basile	?	?	Charles Xavier Thomas		1885	1870
<b>BOURDON</b>	Eugène	1808	1884	<b>DE COULOMB</b>	Charles	1736	1806
<b>BOURDON</b>	François	1797	1865	<b>DE DION-BOUTON</b>	Jules Albert	1856	1946
<b>BOUTON</b>	George	1847	1938	<b>DE DOMBASLE</b>			
<b>BRAMAH</b>	Joseph	1748	1814	Christophe-Joseph-Alexandre		1777	1843
<b>BRANLY</b>	Edouard	1844	1940	<b>DE GIRARD</b>	Philippe	1775	1845
<b>BREGUET</b>	Abraham-Louis		1747	<b>DE JOUFFROY D'ABBANS</b>			
	1823			Claude-Dorothee	1751	1832	
<b>BUDDING</b>				<b>DE LAVAL</b>	1845	1913	
Edwin (John FERRABEE)		1796	1846	<b>DE VAUCANSON</b>	Jacques	1709	1782
<b>BURDIN</b>	Claude	1788	1873	<b>DEBAIN</b>	Alexandre-François	1809	
<b>CAILLETET</b>	Louis-Paul	1832	1913	1877			
<b>CALLA</b>	Etienne	?	?	<b>DECOSTER</b>	Pierre	1806	1861
<b>CARDAN (Cardano)</b>	Jérôme (Girolamo)	1501		<b>DECREOISE</b>			
	1576			<b>DELMARRE-DEBOUTTEVILLE</b>			
<b>CARMIEN</b>	Pierre	1834	1907	Edouard et MALANDIN Léon		1856	1901
<b>CARON de BEAUMARCHAIS</b>				<b>DENHAUT</b>	François	1877	1952

<b>DEPORT Joseph-Albert</b>							
Joseph-Albert	1846	1926					
<b>DIANCOURT</b>	?	?					
<b>DIESEL</b>	Rudolphe	1858	1913				
<b>DU TEMPLE</b>	Félix	1823	1890				
<b>DUGALD CLERK (Sir)</b>		1854	1932				
<b>DUHAMEL du MONCEAU</b>							
Henri Louis	1700	1782					
<b>DUHEM</b>	Pierre	1861	1916				
<b>DUNLOP</b>	John	1840	1921				
<b>DUPUY DE LOME</b>	Henri	1816	1885				
<b>DUSSAULX</b>	Charles	1835	1919				
<b>EDOUX</b>	Félix-Léon	1827	1910				
<b>EIFFEL</b>	Gustave Alexandre		1832				
	1923						
<b>ERARD</b>	Sébastien	1752	1831				
<b>ERICSON</b>	John	1803	1889				
<b>FABRE</b>	Henri	1882	1984				
<b>FARCOT</b>	Joseph	1824	1908				
<b>FASANO</b>	Jean	1848	1924				
<b>FONTAINE-BARON</b>	Pierre	?	?				
<b>FOREST</b>	Fernand	1851	1914				
<b>FOUCAULT</b>	Léon	1819	1868				
<b>FOULLON</b>	Abel	1514	1563				
<b>FOURNESS</b>	Robert	?	?				
<b>FOURNEYRON</b>	Benoît	1802	1867				
<b>FOX</b>	James	1789	1859				
<b>GAMBEY</b>	Henri	1787	1847				
<b>GASPARD-CLAIR de PRONY</b>							
François-Marie	1755	1839					
<b>GERARD</b>	Célestin	1821	1885				
<b>GIFFARD</b>	Henri	1825	1882				
<b>GODART</b>	Phillippe	?	?				
<b>GONOD</b>	Benoît	?	?				
<b>GRUSENMEYER</b>	André	1840	1905				
<b>GUIBAL</b>	Théophile	1814	1888				
<b>GUILMET</b>	André	?	?				
<b>HALETTE</b>	Alexis	1788	1846				
<b>HANCOCK</b>	Walter	1799	1852				
<b>HEILMANN</b>	Jean-Jacques	1853	1922				
<b>HERON D'ALEXANDRIE</b>	Ier siècle après JC			II			
	ème						
<b>HIRN</b>	Gustave Adolphe	?	?				
<b>HOOKE</b>	Robert	?	?				
<b>HUGON</b>	Pierre	?	?				
<b>HUGUENARD</b>	Eugène	1900	?				
<b>HUYGENS</b>	Christiaan	1629	1695				
<b>JACQUARD</b>	Joseph-Marie	1752	1834				
<b>JANVIER</b>	Antide	1751	1835				
<b>JAULMES</b>	Eric	1949	?				
<b>JOHN</b>	Frédéric-Daniell	?	?				
<b>JOUFFROY d'ABBANS</b>							
Claude François	?	?					
<b>KEGRESSE</b>	Adolphe	1879	1943				
<b>KREBS</b>	Athur Constantin		1850				
	1935						
<b>KREBS</b>	Louis	1886	1944				
<b>LALLIER</b>	Jean-Etienne	1830	?				
<b>LARTIGUE</b>	Charles	1834	1907				
<b>LASSIMONE</b>	Bernard	?	?				
<b>LE BRIS</b>	Jean-Marie	1817	1872				
<b>LE CHATELIER</b>	Louis	1815	1873				
<b>LE PRIEUR</b>	Yves	1885	1963				
<b>LEBON</b>	Philippe	1767	1804				
<b>LEDOC</b>	René	1898	1968				
<b>LEFEVRE</b>	Léon	?	?				
<b>LEGROS</b>	René	1872	1954				
<b>LEMOINE</b>	L ?	?					
<b>LENOIR</b>	Etienne	1822	1900				
<b>LETURC</b>	?	?					
<b>LIEGEARD</b>	Gaston	1867	1953				
<b>LOAM</b>	Michael	1797	1871				
<b>LORIN</b>	René	1877	1933				
<b>LOUBEYRE</b>	Jean	1895					
<b>LUMIERE</b>	Louis	1864	1948				
<b>MALLET</b>	Anatole	1837	1919				
<b>MARINONI</b>	Hippolyte-Auguste		1823				
	1904						
<b>MARTIN</b>	Désiré	1822	1894				
<b>MASSIQUOT</b>	Guillaume	1797	1870				
<b>MAUDSLAY</b>	Henry	1771	1831				
<b>MAUZIN</b>	André	1901	1995				
<b>MEIKLE</b>	Andrew	1719	1811				
<b>MEIKLE</b>	Andrew	1719	1811				
<b>MESSIER</b>	George	1896	1933				
<b>MICHAUX</b>	Pierre	1813	1883				
<b>MICHELIN</b>	Edouard	1859	1940				
<b>MILLET</b>	Félix-Théodore?	?	?				
<b>MONTGOLFIER</b>	Joseph-Michel		1740				
	1810						
<b>MONTGOLFIER</b>	Frères	1740-1745	1810-1799				
<b>MORIN</b>	Arthur Jules	1795	1880				
<b>MURDOCH</b>	William	1754	1839				
<b>NASMYTH</b>	Charles	1808	1890				
<b>NEWCOMEN</b>	Thomas	1663	1729				
<b>NIEPCE</b>	Joseph "Nicephore"		1765				
	1798						
<b>OLDHAM</b>	John	1779	1840				
<b>PANHARD</b>							
René, LEVASSOR	Emile	1841	1908				
<b>PAPE</b>	J ?	?					
<b>PAPIN</b>	Denis	1647	1712/1714				
<b>PARSONS</b>	Christopher	1854	1931				
<b>PASCAL</b>	Blaise	1623	1662				
<b>PEAUCELLIER</b>	Charles	1832	1913				
<b>PECQUEUR</b>	Onésiphore	1792	1852				
<b>PENAUD</b>	Alphonse	1850	1880				
<b>PERREAUX</b>	Louis-Guillaume		1816				
	1889						
<b>PERSONNE DE ROBERVAL</b>							
Gilles		1602	1675				
<b>PEUGEOT</b>	Jean-Frédéric	1758	1862				
<b>PHILIPPE</b>	E. ?	?					
<b>PONCELET</b>	Jean-Victor	1788	1867				
<b>PONTON D'AMECOURT</b>							
Gustave		1825	1888				
<b>PROGIN</b>	Xavier	?	1833				
<b>RATEAU</b>							

Auguste Camille Edmond	1863	1930
<b>REDIER</b> Antoine	1817	1892
<b>RENARD</b> Charles	1847	1905
<b>RENAULT</b> Louis	1877	1944
<b>RENOUARD DE VELAYER</b>		
Jean-Jacques ? ?		
<b>REYNAUD</b> Emile	1844	1918
<b>ROBERT</b> Louis-Nicolas	1761	1828
<b>SAINT-HILAIRE</b> Gilles	1948	
<b>SAUVAGE</b> Pierre Louis Frédéric	1786	
	1857	
<b>SAVERY</b> Thomas	~1650	1715
<b>SEGUIN</b> Marc	1786	1875
<b>SENSAUD DE LAVAUD</b>		
Dimitri	1882	1947
<b>SERPOLET-PEUGEOT</b>		
Léon	1858	1907
<b>SOMMEILLER</b> Germain	1815	1871
<b>STEPHENSON George</b>		
James	1781	1848

<b>SUALEM</b> René , dit Rennequin	1681	
	1684	
<b>SURIRAY</b> Jules Pierre	? ?	
<b>THEODORE</b> Olivier	1793	1853
<b>THIMONNIER</b> Barthélemy	1793	1857
<b>THOMAS DE COLMART</b>		
Charles-Xavier	1785	1870
<b>THOMSON</b>		
William (Lord Kelvin)	1824	1907
<b>TIRANTY</b> Philippe	1883	1973
<b>TREUILLE DE BEAULIEU</b>		
	Antoine	1809 1886
<b>TREVITHICK</b> Richard	1771	1833
<b>VIOLET</b> Marcel	1886	1973
<b>WATT</b> James	1736	1814
<b>WHEATSTONE</b> Wheatstone	1802	1875
<b>WHITE</b> ?	?	
<b>WHITWORTH</b> Joseph	1803	1887
<b>WILKINSON</b> John	1728	1808
<b>WOOLF</b> Arthur	1766	1837

## From RWTH team

### Early Modern Times

Agricola Georg	1494 - 1555
Bernoulli Daniel	1700 - 1782
Bernoulli Jakob	1655 - 1705
Bernoulli Johann	1667 - 1748
Bernoulli Nicolas	1695 - ?
Böckler Georg Andreas	1617 - 1687
Calvör Henning	1686 - 1766
Euler Leonhard	1707 - 1783
Lempe Johann Friederich	1757 - 1801
Leupold Jakob	1674 - 1727
Ryff Walther Hermann	1500 - 1548
Schickard Wilhelm	1592 - 1635
Sturm Leonhard Christoph	1669 - 1719
Zeising Heinrich	? - 1613

### Age of Industrial Revolution

Eisenlohr Wilhelm	1799 - 1872
Gauß Carl Friedrich	1777 - 1855
Gerstner Franz Anton von	1793 - 1840
Gerstner Franz Joseph von	1756 - 1832
Kunzek August	1795 - 1865
Langsdorf Karl Christian von	1757 - 1834
Lejeune Dirichlet Peter Gustav	1805 - 1859
Poggendorff Johann C.	1796 - 1877
Poseleger Friedrich Theodor	1771 - 1838
Prechtl Johann Joseph von	1778 - 1854
Redtenbacher Ferdinand	1809 - 1863
Schubert Johann Andreas	1808 - 1870
Weisbach Julius Ludwig	1806 - 1871

### Age of Industrialization

Amsler Alfred	1857 - 1940
Aronhold Siegfried	1819 - 1884

Auerbach Felix	1856 - 1933
Autenrieth Edmund von	1842 - 1910
Bachmann Paul	1837 - 1920
Beck Theodor	1839 - 1917
Bobek Karl Joseph	1855 - 1899
Börckel Alfred	1851 - 1928
Borchardt Carl Wilhelm	1817 - 1880
Braune Christian Wilhelm	1831 - 1892
Braun Ferdinand	1850 - 1918
Bretschneider Carl Anton	1808 - 1878
Bruns Heinrich	1848 - 1919
Burkhardt Heinrich	1861 - 1914
Burmester Ludwig	1840 - 1927
Classen Johannes Wilhelm	1864 - 1928
Clebsch Alfred	1833 - 1872
Cranz Heinrich	1856 - 1926
Damert Heinrich	1836 - 1904
Dannemann Friedrich	1859 - 1936
Dölp Heinrich	1828 - 1874
Drach Karl Alhard von	1839 - 1915
Durège Heinrich	1823 - 1893
Fischer-Benzon Rudolph von	1839 - 1911
Fischer Otto	1861 - 1916
Föppl August	1854 - 1924
Frick Joseph	1806 - 1875
Ganter Heinrich	1848 - 1915
Graetz Leo	1856 - 1941
Grashof Franz	1826 - 1893
Grawinkel Carl	1845 - 1984
Grübler Martin	1851 - 1935
Haarmann Hermann Justus	1877 - 1938
Häntzschel-Clairmont Walter	1856 - ?
Hammer Ernst	1858 - 1925
Heger Richard	1846 - 1919

Heinke Curt	1864 - 1942	Molier Richard	1863 - 1935
Heis Eduard	1806 - 1877	Müller Reinhold	1857 - 1939
Helmholtz Hermann von	1821 - 1984	Netto Eugen	1846 - 1919
Hesse Ludwig Otto	1811 - 1874	Otto Nikolaus	1832 - 1891
Hobart Henry M.	1868 - 1946	Pohlhausen August	1860 - 1938
Hölder Otto	1859 - 1937	Pund Otto Friedrich Martin	1867 - 1908
Holborn Ludwig	1860 - 1926	Radinger Johann Friedrich von	1842 - 1901
Hülse Julius Ambrosius	1812 - 1876	Reuleaux Franz	1829 - 1905
Kapp Gisbert	1852 - 1922	Rittershaus Hermann Trajan	1843 - 1899
Karmarsch Karl	1803 - 1879	Rohr Moritz von	1868 - 1940
Kohlrausch Friedrich	1840 - 1910	Rudio Ferdinand	1856 - 1929
Korn Arthur	1870 - 1945	Rühlmann Moritz	1811 - 1896
Krämer Josef	1849 - 1902	Schafheitlin Paul	1861 - 1924
Krause Martin	1851 - 1920	Schellen Heinrich	1818 - 1884
Krell Otto	1866 - 1938	Schlesinger Ludwig	1864 - 1933
Küpfer Karl	1828 - 1900	Schlömilch Oskar	1823 - 1901
Kummer Ernst Eduard	1810 - 1893	Schubert Hermann	1848 - 1911
Kunzek August	1795 - 1865	Simon Max	1844 - 1918
Kurz August	1835 - ?	Slotte Karl F.	1848 - 1914
Kutzbach Karl	1875 - 1942	Stern Moritz A.	1807 - 1894
Ledebur Adolf	1837 - 1906	Thomae Johannes	1840 - 1921
Lewald Theodor	1860 - 1947	Wagener August	1865 - 1913
Liebmann Heinrich	1874 - 1939	Wangerin Albert	1844 - 1933
Lorenz Hans	1865 - 1940	Zech Paul	1828 - 1893
Mach Ernst	1838 - 1916	Zeuner Gustav	1828 - 1907
Maurer Ludwig	1859 - 1927	Zimmermann Hermann	1845 - 1935
Mewes Rudolf	1858 - ?		

## From IFMA team

ARMENGAUD Charles	1813 1893	CITROEN Gustave-André	1878 1935
ADER Clément	1841 1925	CORIOLIS Gaspard-Gustave	1792 1843
ARNOUX Jean-Claude-Républicain	1792 1866	CORNU Paul	1881 1944
BEAU de ROCHAS Alphonse	1815 1893	COTTON Aimé	1869 1951
BELIN Édouard	1876 1963	COUVREUX Alphonse	1820 1890
BERGES Aristide	1833 1904	CROS Charles	1842 1888
BERTIN Louis-Emile	1840 1924	CUGNOT Nicolas-Joseph	1725 1804
BESSON Jacques	1540 1576	DAMBLANC Louis	1889 1969
BICH Marcel	1914 1994	D'AURILLAC Gerberto	entre 945 et 950 - 1003
BLERIOT Louis	1872 1936	DAVELUY René	1863 1939
BOLLEE Amédée	1867 1926	DE Bar Le Duc Jean Errard	1554 - 1610
BOLLEE Léon	1870 1913	DE CAUS Salomon	1576 1626
BOURDON Eugène	1808 1884	DE COLMAR Charles Xavier Thomas	1885 1870
BOURDON François	1797 1865	DE COULOMB Charles	1736 1806
BOUTON George	1847 1938	DE DION-BOUTON Jules Albert	1856 1946
BRANLY Edouard	1844 1940	DE DOMBASLE Christophe-Joseph-Alexandre	1777 1843
BREGUET Abraham-Louis	1747 1823	DE GIRARD Philippe	1775 1845
BURDIN Claude	1788 1873	DE HONNECOURT Villard	1200
CAILLETET Louis-Paul	1832 1913	DE JOUFFROY D'ABBANS Claude-Dorothee	1751 1832
CARDAN (Cardano) Jérôme (Girolamo)	1501 1576	DE VAUCANSON Jacques	1709 1782
CARMIEN Pierre	1834 1907	DEBAIN Alexandre-François	1809 1877
CARON de BEAUMARCHAIS Pierre Augustin	1732 1799	DECOSTER Pierre	1806 1861
CAVE François	1794 1875	DE LA HIRE Philippe	1640 -1718
CELESTIN Gérard	1821 1885	DELAMARRE-DEBOUTTEVILLE Edouard	1856 1901
CHAPPE Claude	1763 1805		
CHASLES Michel	1793 1880		

DENHAUT François 1877 1952  
 DEPORT Joseph-Albert 1846 1926  
 DIESEL Rudolphe 1858 1913  
 DU TEMPLE Félix 1823 1890  
 DUHAMEL du MONCEAU Henri Louis 1700 1782  
 DUHEM Pierre 1861 1916  
 DUPUY DE LOME Henri 1816 1885  
 DUSSAULX Charles 1835 1919  
 EDOUX Félix-Léon 1827 1910  
 EIFFEL Gustave Alexandre 1832 1923  
 ERARD Sébastien 1752 1831  
 FABRE Henri 1882 1984  
 FARCOT Joseph 1824 1908  
 FASANO Jean 1848 1924  
 FOREST Fernand 1851 1914  
 FOUCAULT Léon 1819 1868  
 FOULLON Abel 1514 1563  
 FOURNEYRON Benoit 1802 1867  
 GAMBÉY Henri 1787 1847  
 GASPARD-CLAIR de PRONY François-Marie 1755 1839  
 GERARD Célestin 1821 1885  
 GIFFARD Henri 1825 1882  
 GRUSENMEYER André 1840 1905  
 GUIBAL Théophile 1814 1888  
 HALETTE Alexis 1788 1846  
 HEILMANN Jean-Jacques 1853 1922  
 JACQUARD Joseph-Marie 1752 1834  
 JANVIER Antide 1751 1835  
 KEGRESSE Adolphe 1879 1943  
 KREBS Athur Constantin 1850 1935  
 KREBS Louis 1886 1944  
 LAGRANGE Joseph-Louis 1736 1813  
 LALLIER Jean-Etienne 1830 fin du XIXème siècle  
 LARTIGUE Charles 1834 1907  
 LE BRIS Jean-Marie 1817 1872  
 LE CHATELIER Louis 1815 1873  
 LE PRIEUR Yves 1885 1963  
 LEBON Philippe 1767 1804  
 LEDUC René 1898 1968  
 LEGROS René 1872 1954  
 LENOIR Etienne 1822 1900  
 LIEGEARD Gaston 1867 1953  
 LORIN René 1877 1933  
 LUMIERE Louis 1864 1948  
 MALLET Anatole 1837 1919  
 MARINONI Hippolyte-Auguste 1823 1904  
 MARTIN Désiré 1822 1894  
 MASSIQUOT Guillaume 1797 1870  
 MAUZIN André 1901 1995  
 MESSIER George 1896 1933  
 MICHAUX Pierre 1813 1883  
 MICHELIN Edouard 1859 1940  
 MONTGOLFIER Frères 1740 1745 1810 1799  
 MORIN Arthur Jules 1795 1880  
 NAVIER Claude Louis Marie Henri 1785 1836  
 NIEPCE Joseph "Nicephore" 1765 1798  
 PANHARD René, LEVASSOR Emile 1841 1908  
 PAPIN Denis 1647 1712/1714

PASCAL Blaise 1623 1662  
 PEAUCELLIER Charles 1832 1913  
 PECQUEUR Onésiphore 1792 1852  
 PENAUD Alphonse 1850 1880  
 PERREAUX Louis-Guillaume 1816 1889  
 PERSONNE DE ROBERVAL Gilles 1602 1675  
 PEUGEOT Jean-Frédéric 1758 1862  
 POINSOT Louis 1777 1859  
 PONCELET Jean-Victor 1788 1867  
 PONTON D'AMECOURT Gustave 1825 1888  
 RATEAU Auguste Camille Edmond 1863 1930  
 REDIER Antoine 1817 1892  
 RENARD Charles 1847 1905  
 RENAULT Louis 1877 1944  
 REYNAUD Emile 1844 1918  
 ROBERT Louis-Nicolas 1761 1828  
 SAUVAGE Pierre Louis Frédéric 1786 1857  
 SAVARY Félix 1797 1841  
 SEGUIN Marc 1786 1875  
 SENSAUD DE LAVAUD Dimitri 1882 1947  
 SERPOLET- PEUGEOT Léon 1858 1907  
 SOMMEILLER Germain 1815 1871  
 THEODORE Olivier 1793 1853  
 THIMONNIER Barthélemy 1793 1857  
 THOMAS DE COLMART Charles-Xavier 1785 1870  
 TIRANTY Philippe 1883 1973  
 TREUILLE DE BEAULIEU Antoine 1809 1886  
 VIOLET Marcel 1886 1973

#### List of Enterprises

Acc Ingenierie et Maintenance  
 Aciers Coste Sa  
 Adiamas  
 Aerolia  
 AGCO S.A.  
 Airbus SAS  
 ALSTOM Power Systems SA  
 ALSTOM transport SA  
 ALTRAN  
 Arcelormittal Atlantique & Lorraine  
 Astrium SAS  
 Atelier Industriel de l'Aéronautique  
 Aubert & Duval Fortech & Tecphy (HTM)  
 Auvergne Aéronautique  
 Cartolux Thiers  
 Dapta SAS  
 Dassault Aviation  
 Dassault Systèmes  
 EADS  
 Eurocopter  
 Faurecia Intérieur Industrie  
 FMC Automobiles  
 Foriginal Industrie  
 Française de Mécanique  
 Issoire Aviation  
 Lohr Industrie  
 Manufacture France Pneumatique Michelin  
 NTN-SNR Roulements

Peugeot Citroën Automobile SA  
Renault SAS - Renault-Nissan  
Setforge Gauvin  
Société Européenne Véhicules Légers du Nord  
Société Mécanique Automobile de l'Est  
SODG  
SYNTEC-Ingénierie  
Thales  
Trelleborg Industrie SA  
Valfond Mécanique  
Vallourec  
Wichard

#### List of Institutions

Centre Technique du groupe automobile PSA Peugeot-Citroën  
Centre  
Technique du groupe automobile Renault  
Institut Supérieur de l'Automobile et des Transports - L'ISAT  
Institut de Mécanique Aéronautique et Automobile des MFR - IMAA

#### List of Libraries

Bibliothèque du CEMAGREF  
Bibliothèque Nationale de France (Gallica)  
Bibliothèque Clermont Université - BCU Auvergne :  
- Section Sciences et Techniques  
- Université d'Auvergne - Institut Universitaire de Technologie (IUT)  
- Université Blaise Pascal - Département de Mathématiques  
- Institut Universitaire de Technologie de Montluçon  
Clermont Communauté – Bibliothèque du Patrimoine

#### List of Museums

Musée Crozatier au Puy en Velay  
Musée des arts et métiers à Paris  
Musée Michelin à Clermont-Ferrand  
Musée de l'automobile à Cadillac  
Musée Agrivap : Musée de la machine agricole et à vapeur à Ambert  
Musée Henri Lecocq à Clermont-Ferrand  
Musée de la coutellerie à Thiers  
Musée de la belle époque de l'automobile à Pont-L'évêque  
Manoir de l'automobile à Lohéac  
Musée du vélo : Véloparc à Plouay (Morbihan)  
Musée de l'automobile à Valençay (Indre)  
Musée de la base aérienne 112 et de l'aéronautique locale à REIMS  
Musée Peugeot à Sochaux

#### List of Schools of Engineering

Ecole Centrale de Lille

Ecole Centrale de Lyon  
Ecole Centrale de Marseille  
Ecole Centrale de Nantes  
Ecole Centrale de Paris  
Ecole des Mines d'Albi-Carmaux  
Ecole des Mines d'Alès  
Ecole des Mines de Douai  
Ecole des Mines de Nancy  
Ecole des Mines de Nantes  
Ecole des Mines de Paris  
Ecole des Mines de Saint-Etienne  
Ecole des Ponts - Marne-la-Vallée  
Ecole Navale et groupe des écoles du Poulmic - Brest  
Ecole Polytechnique - Palaiseau  
ECPM - Ecole Européenne de Chimie, Polymères et Matériaux - Strasbourg  
EI CESI - Ecole d'Ingénieurs du Cesi - Paris  
EIVP - Ecole des Ingénieurs de la Ville de Paris  
ENAC - Ecole Nationale de l'Aviation Civile - Toulouse  
ENSAI - Ecole Nationale de la Statistique et de l'Analyse de l'Information - Bruz  
ENSAIT - Ecole Nationale Supérieure des Arts et Industries Textiles - Roubaix  
ENSAM - Ecole Nationale Supérieure d'Arts et Métiers - Paris (et 7 centres en région)  
ENSCI - Ecole Nationale Supérieure de Céramique Industrielle de Limoge  
ENSCL - Ecole Nationale Supérieure de Chimie de Lille  
ENSCM - Ecole Nationale Supérieure de Chimie de Mulhouse  
ENSCP - Ecole Nationale Supérieure de Chimie de Paris  
ENSCR - Ecole Nationale Supérieure de Chimie de Rennes  
ENSEA - Ecole Nationale Supérieure de l'Electronique et de ses Applications - Cergy  
ENSEEIH - Ec, Nat, Sup, d'Electrotechnique, d'Electronique, d'Informatique, d'Hydraulique et des Télécom, - Toulouse  
ENSEIRB - Ecole Nationale Supérieure d'Electronique, Informatique et Radiocommunications - Bordeaux  
ENSEM - Ecole Nationale Supérieure d'Electricité et de Mécanique - Vandoeuvre les Nancy  
ENSI Bourges - Ecole Nationale Supérieure d'Ingénieurs  
ENSIACET - Ecole Nationale Supérieure des Ingénieurs en Arts Chimiques et Technologiques - Toulouse  
ENSIAME ISIV - Ec, Nat, Sup, d'Ing, en Informatique, Automatique, Mécanique, Energétique, Electronique - Valenciennes  
ENSIC - Ecole Nationale Supérieure des Industries Chimiques - Nancy  
ENSICA - Ecole Nationale Supérieure d'Ingénieurs de Construction Aéronautique - Toulouse  
ENSICAEN - Ecole Nationale Supérieure d'Ingénieurs de Caen & Centre de Recherche

ENSIETA - Ecole Nationale Supérieure d'Ingénieurs - Brest  
 ENSIIE - Ecole Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise - Evry  
 ENSIL - Ecole Nationale Supérieure d'Ingénieurs de Limoges  
 ENSIM - Ecole Nationale Supérieure d'Ingénieurs du Mans  
 ENSMA - Ecole Nationale Supérieure de Mécanique et d'Aérotechnique - Poitiers  
 ENSMM - Ecole Nationale Supérieure de Mécanique et des Microtechniques - Besançon  
 ENSPS - Ecole Nationale Supérieure de Physique de Strasbourg  
 ENSSAT - Ecole Nationale Supérieure des Sciences Appliquées et de Technologie - Lannion  
 ENST Bretagne - Ecole Nationale Supérieure des Télécommunications - Brest  
 ENSTA - Ecole Nationale Supérieure de Techniques Avancées - Paris  
 ENSTIB - Ecole Nationale Supérieure des Technologies et Industries du Bois - Epinal  
 ESIAL - Ecole Supérieure d'Informatique et Applications de Lorraine  
 ESIL - Ecole Supérieure d'Ingénieurs de Luminy  
 ESIP - Ecole Supérieure d'Ingénieurs de Poitiers  
 ESIREM - Ecole Supérieure d'Ingénieurs de Recherche en Matériaux - Dijon  
 ESPCI - Ecole Supérieure de Physique et de Chimie Industrielle de la Ville de Paris (A ne pas confondre avec "Chimie de Paris" = ENSCP)  
 ESTIA - Ecole Supérieure des Technologies Industrielles Avancées - Biarritz  
 ESTP - Ecole Spéciale des Travaux Publics, du Bâtiment et de l'Industrie  
 IFMA - Institut Français de Mécanique Avancée - Clermont-Ferrand  
 INP Grenoble EFPG - Ecole Française de Papétrie et des industriels Graphiques - Grenoble  
 INP Grenoble ENSEEG - Ecole Nationale Supérieure d'Electrochimie et d'Electrometallurgie de Grenoble  
 INP Grenoble ENSERG - Ecole Nationale Supérieure d'Electronique et de Radioélectricité de Grenoble  
 INP Grenoble ENSGI - Ecole Nationale Supérieure de Génie Industriel - Grenoble  
 INP Grenoble ENSHMG - Ecole Nationale Supérieure d'Hydraulique et de Mécanique de Grenoble  
 INP Grenoble ENSIEG - Ecole Nationale Supérieure d'Ingénieurs Electriciens de Grenoble  
 INP Grenoble ENSIMAG - Ecole Nationale Supérieure d'Informatique et de Mathématiques Appliquées de Grenoble  
 INP Grenoble ENSPG - Ecole Nationale Supérieure de Physique de Grenoble  
 INP Grenoble TELECOM  
 Institut d'Optique - Palaiseau  
 INSA - Institut National des Sciences Appliquées – Lyon (école publique d'ingénieurs en France)

INSA - Institut National des Sciences Appliquées – Rennes (école publique d'ingénieurs en France)  
 INSA - Institut National des Sciences Appliquées – Rouen (école publique d'ingénieurs en France)  
 INSA - Institut National des Sciences Appliquées – Strasbourg (école publique d'ingénieurs en France)  
 INSA - Institut National des Sciences Appliquées – Toulouse (école publique d'ingénieurs en France)  
 ISIFC - Institut Supérieur d'Ingénieurs de Franche-Comté - Besançon  
 ISIMA - Institut Supérieur d'Informatique, de Modélisation et des Applications - Aubière  
 ISITV - Institut des Sciences de l'Ingénieur de Toulon et du Var  
 ISTASE - Institut Supérieur des Techniques Avancées de Saint-Etienne  
 ISTIL - Institut des Sciences et Techniques de l'Ingénieur de Lyon  
 ITECH Lyon - Institut TExtile et CHimique  
 MATMECA Bordeaux  
 Polytech' Clermont-Ferrand (ex, CUST)  
 Polytech' Grenoble  
 Polytech' Lille  
 Polytech' Marseille  
 Polytech' Montpellier  
 Polytech' Nantes  
 Polytech' Nice Sophia  
 Polytech' Orléans  
 Polytech' Paris UPMC - Ecole Polytechnique Universitaire Pierre et Marie Curie  
 Polytech' Savoie - Ecole Polytechnique de l'Université de Savoie - Annecy  
 Polytech' Tours  
 SUPAERO - Ecole Nationale Supérieure de l'Aéronautique et de l'Espace - Toulouse  
 SUPELEC  
 SUPMECA Paris-Toulon  
 TELECOM INT - Institut National des Télécommunications - Evry  
 Télécom Paris - Ecole Nationale Supérieure des Télécommunications  
 Université Pierre et Marie Curie, Paris VI  
 Université Blaise Pascal, Clermont-Ferrand II  
 Université d'Auvergne – Université Clermont-Ferrand - I

#### List of Départements

LAMI - laboratoire de recherche en Sciences de l'Ingénieur - Clermont-Ferrand  
 ViaMéca - Pôle de compétitivité en mécanique - Clermont-Ferrand  
 CETIM - Centre Technique des Industries Mécaniques - Clermont-Ferrand  
 CTT - Centre de Transfert de Technologie à l'IFMA - Clermont-Ferrand

ANTICHITà GRECO-ROMANA

HERON D'ALEXANDRIE Grèce Ier siècle après JC II  
ème siècle après JC

**BIO ADDIZIONALI ed EUROPEI**

ARKWRIGHT Richard Royaume Uni 1732  
1792  
BARBER John Royaume Uni 1734  
1801  
BLENKINSOP John Royaume  
Uni 1783 1831  
BOOTH Hubert Cecil Royaume  
Uni 1871 1955  
BRAMAH Joseph Royaume  
Uni 1748 1814  
BUDDING Edwin (John FERRABEE) Royaume  
Uni 1796 1846  
CARTWRIGHT Edmund Royaume Uni 1743  
1823  
COCKERELL Christopher Royaume  
Uni 1910 1999  
CROMPTON Samuel Royaume Uni 1753  
1827  
DE LAVAL Gustaf Suède  
1845 1913  
DUGALD CLERK (Sir) Royaume Unis  
1854 1932  
DUNLOP John Ecosse 1840 1921  
ERICSON John Suède 1803 1889  
FOX James Royaume  
Unis 1789 1859  
HANCOCK Walter Royaume  
Unis 1799 1852  
LOAM Michael Royaume Unis  
1797 1871

MAUDSLAY Henry Royaume  
Unis 1771 1831  
MEIKLE Andrew Royaume  
Unis 1719 1811  
MEIKLE Andrew Ecosse  
1719 1811  
MURDOCH William Royaume  
Uni 1754 1839  
NASMYTH James Royaume  
Uni 1808 1890  
NEWCOMEN Thomas Royaume Uni 1663  
1729  
OLDHAM John Royaume Uni 1779  
1840  
PARSONS Charles Royaume  
Uni 1854 1931  
SAVERY Thomas Royaume  
Uni 1650 1715  
STEPHENSON George Royaume Uni 1781  
1848  
SUALEM"René, dit Rennequin" Belgique 1681 1684  
THOMSON William (Lord Kelvin) Royaume  
Uni 1824 1907  
TREVITHICK Richard Royaume Uni 1771  
1833  
WATT James Royaume  
Uni 1736 1814  
WHEATSTONE Wheatstone Royaume Uni 1802  
1875  
WHITWORTH Joseph Royaume Uni 1803  
1887  
WILKINSON John Royaume  
Uni 1728 1808  
WOOLF Arthur Royaume Uni 1766  
1837

**From UBC team**

**Authors who are uploaded**

Ibn Firis	Abbás	810	887
Goicoechea Omar	Alejandro	1895	1984
Bartolomeu Lourenço		1685	1724
García Saez	Cosme	1818	1874
Bacas Montero	Darío		
	25.10.1845	19.01.1913	
Marin Aguilera	Diego	1757	1799
Terradas i Illa	Esteban	1883	1950
Churruca y Brunet	Evaristo	1841	1917
Cantero Villamil	Federico	1874	1946
Peral y Caballero	Isaac	1851	1895
Echegaray y Eizaguirre	José		
	19.04.1832	14.09.1916	
Algué	José Maria	1856	1930
de la Cierva	Juan	1895	1936
Torrentegui Ibarra	Leandro José	1888	1977
Torres Quevedo	Leonardo	1852	1936
Monturiol	Narciso	1819	1885

Verea García	Ramón Silvestre	1833	1899
Leret Ruiz	Virgilio	1902	1936
de Borja Ricart Medina		1897	1974
Cornet i Mas	Josep Maria	1839	1916
Rovira y Rabassa	Antonio	1845	1919
Vicuña Lazcano	Gumersindo	1840	1882
De Madariaga y Casado	José Maria		
	03.07.1853	31.01.1934	
Villarreal de Bériz	Pedro Bernardo	1669	1740
de Alzola y Minondo	Pablo	1841	1912
Palacios Martínez	Julio	1891	1970
Jalón Corominas	Manuel	1925	-
Rey Pastor	Julio	1888	1962
José Manuel			
González Hontoria	José	21.07.1840	1889
Salva y Campillo	Francisco	1751	1828
Mendiguren	Bruno	1910	1950
Delclaux Arostegui	Isidoro	1894	1984



Laffite Martínez Carlos 1883 1978

**Authors who are planed to be uploaded**

Álvarez Ruiz Adrian 1884 1950  
 Palacio Alberto  
 Estevez Varela Arturo  
 Faray Blaseo  
 González Nontoria Diego  
 Torroja y Miret Eduardo  
 Herrera Linares Emiliano 1879 1967  
 Lobato Francisco  
 Gonzalez Camarena Guillermo 1917 1965  
 De Ayanz y Beaumont Jerónimo 1553 1613  
 y Santacilia Jorge Juan 1713 1773  
 Martinez Marín Jose Antonio  
 de Alzate y Ramírez José Antonio 1737 1799  
 López Peñalver Juan  
 de Zafra y Esteban Juan Manuel  
 Cervera Baviera Julio 1854 1929  
 Daza Gómez Manuel 1853 ??  
 Fernández Reguero Ramón 1775 1840  
 de la Sagra Ramón  
 de Zubiría e Ibarra Tomás  
 Florez Posada Juan  
 De Echevarría y RotaacheFederico 1840 1932  
 Orbegozo Goróstegui José 1870 1932  
 Rotaache Velasco Ignacio 1888 1951  
 Echevarrieta Maruri Horacio 1870 1963  
 de Bustinduy y Vergara Nicolás 1849 1928  
 Mendiluce Rosich Enrique 1913 ??  
 Zuloaga Oscar 1893 ??  
 Zara Pont Antonio 17?? 17??  
 Alfaro y Fournier Jesus 1895 1961  
 Fournier Heraclio Alfaro 1893 1962  
 de Aguirre Guisasola José Urbano 1888 1957  
 Miguel 1878  
 Jose María 1885  
 Iribarren Cavanilles Ramón 1900 1967  
 Tombelle Gabalda Federico ????

Echeverría y Ugarte Lucas 1831 1891  
 Iribarren Cavanilles Ramón 1900 1967  
 Chávarri y Salazar Victor Francisco 1854 1900  
 COLOMINA RADUÁN EMILIO 1862 1934  
 FLORES POSADA JUAN  
 MORILLO FARFÁN JOSÉ 1942  
 USABIAGA LASQUIBARJUAN 1879 1953  
 PEDRO MIGUEL  
 GERVASIO  
 AGULLÓ DE LA ESCOSURA VENTURA  
 MATAIX ARACIL CARLOS 1880 1961  
 SOTO REDONDO MANUEL 1882  
 DE ARTIGAS SANZJOSÉ ANTONIO 1887 1977  
 TORAN DE LA RAD ALFONSO 1886 1944  
 PUIG ADAM PEDRO 1900 1960  
 CASTAÑEDA CHORNET JOSÉ  
 1900  
 ALONSO-VIGUERA JOSÉ MARÍA 1900 1974  
 ABOLLADO ARIBAU CARLOS 1902 1991  
 LA PORTE SAENZ ERNESTO 1905  
 DE ORIOL Y URQUIJO JOSE MARIA 1905  
 FERNANDO 1907  
 DE LAMADRID MARTINEZ ADELARDO  
 CAREAGA Y BASABE PILAR 1908  
 CEBRIÁN MARTINEZ CLEMENTE 1908  
 JOSÉ 1909  
 MONTES ÑIGUEZ JOSE 1910  
 DE LA SIERRA FERMÍN 1912  
 MEDINA ENRIQUE 1912  
 COLINO LÓPEZ ANTONIO 1914  
 MANUEL  
 TORAN TOMAS ANGEL 1925 1999  
 FUSTEL DE LA MEDIAEMILIO 1929  
 GODED CHAVARRÍA FEDERICO  
 SUANZES FERNANDEZ JUAN ANTONIO

**From UPT team**

Conrad Haas 1509-1576  
 Alexandru Ciurcu 1854-1922  
 Vera Myller 1880-1970  
 Alexandru Myller 1879-1965  
 Alexandru Proca 1897-1955  
 Anghel Saligny 1854-1925  
 Aristide Caradja 1861-1955  
 Augustin Maior 1822-1964  
 Aurel Vlaicu 1882-1913  
 Constantin Al. Parvulescu 1890-1945  
 Constantin Budeanu 1886-1959  
 Constantin Minulescu 1863-1937  
 Daniel Danielopolu 1884-1955  
 David Emmanuel 1854-1941  
 Dimitrie Leonida 1883-1965

Dimitrie Pompeiu 1873-1954  
 Dragomir Hurmuzescu 1865-1954  
 Elie Radu 1853-1931  
 Eliza Leonida-Zamfirescu 1887-1973  
 Emanuel Bacaloglu 1830-1891  
 Eugen Badarau 1897-1975  
 Gabriel Sudan 1899-1977  
 Gheorghe Cartianu 1907-1982  
 Gheorghe Titeica 1873-1939  
 Gheorghe Vranceanu 1900-1979  
 Gogu Constantinescu 1881-1965  
 Grigore Moisil 1906-  
 Henri Coanda 1886-1972  
 Horea Hulubei 1896-1972  
 Ion Barbu (Dan Barbilian) 1895-1961  
 Ion S. Gheorghiu 1885-1968

Miron Nicolescu 1903-1975  
 Nicolae Coculescu 1866-1952  
 Nicolae Teclu 1839-1916  
 Nicolae Vasilescu Karpen 1870-1964  
 Octav Onicescu 1892-1983  
 Simion Stoilow 1887-1961  
 Stefania Maracineanu 1882-1944  
 Stefan Gheorghita 1926-1978  
 Stefan Odobleja 1902-1978  
 Stefan Procopiu 1890-1972  
 Traian Lalescu 1882-1929  
 Traian Vuia 1872-1950  
 Tudor Tanasescu 1901-1961  
 Victor Valcovici 1885-1970  
 Elie Carafoli 1901-1983  
 Gheorghe Panculescu 1844-1924  
 Francisc Kovacs 1929-2009  
 Nicolae Gheorghiu 1928-1999  
 Dan perju 1935-  
 Lucian Madaras 1941-  
 Octavian Gligor  
 Desideriu Maros  
 Viorel Handra-Luca  
 Vistrian Maties 1947-  
 Csibi Vencel Iosif 1945-  
 Ion Ardelean 19551-  
 Ion Visa 1949-  
 Florea Dudita  
 Aurel Jula 1936-  
 Petre Alexandru 1938-  
 Emil Chisu 1943-  
 Stefan Anghel 1941-2003  
 Paun Antonescu 1938-  
 Radu Bogdan  
 Traian Demian  
 Anastase Dragomir 1896-1966  
 Cezar Duca 1941-  
 Mihai Gafitanu 1934-  
 Rodrig Goliescu 1882-1929  
 Nicolae Manolescu 1907-1993  
 Vasile Merticaru 1937-  
 Mihai Nadin 1938-  
 Amedeu Oranescu  
 Christian Pelecudi  
 Aurel Persu 1890-1977  
 Iosif Tempea 1939-  
 Dumitru Tudor  
 Ioan Vacaescu 1944-2000  
 Ion Vela 1945-  
 Radu Voinea 1923-2010

Universitatea "Politehnica" Timisoara  
 Universitatea de Nord Baia Mare  
 Universitatea din Craiova  
 Universitatea "Lucian Blaga" Sibiu  
 Universitatea "Dunarea de Jos" Galati  
 Universitatea din Bacau  
 Universitatea din Oradea  
 Technical Museums – Romania

Muzeul Militar National Regele "Ferdinand I"  
 Bucuresti  
 Muzeul Tehnic "Prof. Ing. Dimitrie Leonida" Bucuresti  
 Muzeul Stiintei si Tehnicii "Stefan Procopiu" Iasi  
 Muzeul Aviatiei Bucuresti  
 Muzeul Ceasului Ploiesti  
 Muzeul Universitatii Politehnica Bucuresti

#### Univesities – Romania

Universitatea "Politehnica" Bucuresti  
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 Universitatea "Transilvania" Brasov  
 Universitatea Tehnica Cluj-Napoca  
 Universitatea "Aurel Vlaicu" Arad  
 Universitatea "Stefan cel Mare" Suceava

## ANNEX 2- list of topics indicators for cross-link descriptions

Italian	English	German	French	Spanish	Roumenian
Who-is-Who in MMS	Who-is-Who in MMS	Who-is-Who in der Wissenschaft der Mechanismen und Maschinen	Who-is-Who pour les Machines, Mécanismes et Systèmes	Quién es quién en Teoría de Mecanismos y Máquinas	Who-is-Who in MMS
scienza dei meccanismi	Mechanism and machine science MMS	Wissenschaft der Mechanismen und Maschinen	science des machines et mécanismes	Ciencia de los mecanismos	Știința mecanismelor și mașinilor MMS
meccanismi	mechanisms	Mechanismen	mécanismes	Mecanismos	mecanisme
cinematica delle macchine	kinematics of machinery	Maschinenkinematik	cinématique des machines	Cinemática de máquinas	cinematica mașinilor
dinamica delle macchine	dynamics of machinery	Maschinendynamik	dynamique des machines	Dinámica de máquinas	dinamica mașinilor
dinamica di sistemi multi corpo	multibody dynamics	Mehrkörperdynamik	dynamique multi-corps	Dinámica de sistemas multicuerpo	dinamica (sistemelor) multicorp
meccanica delle macchine	mechanics of machinery	Maschinenmechanik	mécanique des machines	Mecánica de máquinas	mecanica mașinilor
meccanica applicata alle macchine	mechanics applied to machines	angewandte Maschinenmechanik	mécanique appliquée aux machines	Mecánica aplicada a las máquinas	mecanica aplicată mașinilor
teoria dei meccanismi	theory of mechanisms	Mechanismentheorie	théorie des mécanismes	Teoría de Mecanismos	teoria mecanismelor
storia delle macchine	history of machines	Geschichte der Mechanismen	histoire des machines	Historia de las máquinas	istoria mașinilor
storia dell'ingegneria meccanica	history of mechanical engineering	Geschichte des Maschinenbaus	histoire de l'ingénierie mécanique	Historia de la ingeniería mecánica	istoria ingineriei mecanice
meccanica delle vibrazioni	mechanics of vibrations	Schwingungsmechanik (or do you mean: vibration engineering = Schwingungstechnik)	mécanique vibratoire	Mecánica de las vibraciones	mecanica vibrațiilor
meccanica dei robot	mechanics of robots	Robotik	robotique	Mecánica de robots	mecanica roboților
meccanica del veicolo	vehicle mechanics	Fahrzeugtechnik	mécanique du véhicule	Mecánica de vehículos	mecanica vehiculelor
regolazione dei sistemi meccanici	control of mechanical systems	Steuerung mechanischer Systeme	commande des systèmes mécaniques	Control de sistemas mecánicos	reglarea (controlul) sistemelor mecanice
meccanica degli azionamenti	mechanics of actuations	Antriebsmechanik (or: Antriebstechnik)	mécanique des actionneurs	Mecánica de los accionamientos	mecanica acționărilor
meccanica del movimento	mechanics of motion	Bewegungsmechanik (or: Bewegungstechnik)	mécanique du mouvement	Mecánica del movimiento	mecanica mișcării
meccanica agraria	agricultural mechanics	Mechanismen der Landmaschinen	mécanique agricole	Mecánica agrícola	mecanica agricolă
sistemi meccanici per l'automazione	mechanical system for automation	Mechanische Systeme für Automatisierung	système mécanique pour l'automatique	Sistemas mecánicos para automatismos	sisteme mecanice de automatizare
sistemi mecatronici	Mechatronic systems	Mechatronische Systeme	systèmes mécaniques	Sistemas mecatrónicos	sisteme mecatronice
meccanica sperimentale	experimental mechanics	Experimentalmechanismen (Prüfstände?)	mécanique expérimentale	Mecánica experimental	mecanica experimentală
progettazione di meccanismi	mechanism design	Mechanismenkonstruktion	conception de mécanismes	Diseño de mecanismos	proiectarea mecanismelor
progettazione delle macchine	mechanical design	mechanische Konstruktion (or do you mean: „Engineering design“ = Konstruktionstechnik)	génie mécanique	Diseño de máquinas	proiectarea sistemelor mecanice
progettazione	functional design	funktioneeller Entwurf (?)	conception	Diseño	proiectarea

funzionale			fonctionnelle	funcional	funcțională
sintesi cinematica	kinematic synthesis	kinematische Synthese	synthèse cinématique	Síntesis cinemática	sinteza cinematică
geometria descrittiva	descriptive geometry	darstellende Geometrie	géométrie descriptive	Geometría descriptiva	geometrie descriptivă
disegno tecnico	technical drawing	technische Zeichnung	dessin technique	Dibujo técnico	desen tehnic
storia del disegno	history of drawing	Geschichte der Zeichnungen	histoire du dessin	Historia del diseño	istoria desenului (tehnic)
proiezioni assonometriche	axonometric projections	axonometrische Projektion	projections axonométriques	Proyecciones axonométricas	proiecții axonometrice
sistemi articolati	linkages	Gelenkkette	mécanismes à barres	Mecanismos de barras	mecanisme cu bare articulate
trasmissioni meccaniche	mechanical transmissions	mechanische Übertragung	Transmissions mécaniques	Transmisiones mecánicas	transmisii mecanice
ingranaggi	gears	Zahnrad (Zahnradgetriebe)	engrenages	Engranajes	angrenaje
camme	cams	Kurvenscheiben („cam mechanism“ = Kurvengetriebe)	comes	Levas	came
manipolatori			manipulateurs	Manipuladores	manipolatoare
freni	brakes	Bremsen	freins	Frenos	frâne
paranchi	pulley systems	Riemensystem (?; or: „belt drive“ = Riemengetriebe, or allg.: Zugmittelgetriebe)	systèmes à poulies	Sistemas de poleas	sisteme de roți (scripeți)
cuscinetti	bearings	Lager	paliers	Rodamientos	lagăre
sistemi biomeccanici	biomechanical systems	biomechanisches System	systèmes biomécaniques	Sistemas biomecánicos	sisteme biomecanice
manipolatori paralleli	parallel manipulators	Parallelmanipulatoren	manipulateurs parallèles	Manipuladores paralelos	manipolatoare paralele
simulazione	simulation	Simulation	simulation	Simulación	simulare
brevetto	patent	Patent	brevet	Patente	patent
invenzione	invention	Erfindung	invention	Invento	invenție
teoria	theory	Theorie	théorie	Teoría	teorie
applicazione	application	Anwendung	application	Aplicación	aplicație
formazione	formation	Anordnung	formation	Formación	formație/formare
ingegnere	engineer	Ingenieur	ingénieur	Ingeniero	inginer
architetto	architect	Architekt	architecte	Arquitecto	arhitect
professore	professor	Professor (or generally: Lehrender)	professeur	Catedrático	profesor
progettista	designer	Konstrukteur (Designer)	concepteur-projeteur	Diseñador	proiectant
inventore	inventor	Erfinder	inventeur	Inventor	inventator
tesi di laurea	thesis	These	thèse	Proyecto de fin de carrera	teză
tesi di dottorato	phd thesis	Thesen einer Dissertation	thèse de doctorat	Tesis doctoral	teză de doctorat
trattatistica	treatise	Aufsatz (or: Schrift, Abhandlung)	traité	Tratado	tratate
prototipo	prototypes	Prototypen	prototype	Prototipo	prototipuri
robot mobili	mobile robots	mobile Roboter	robot mobile	Robot móvil	roboți mobili
service robot	service robots	Service Roboter	robot de service	Robot de servicio	roboți de servicii
report	reports	Reporte	rapport	Informe	rapoarte
...	...	...			

**In addition keywords for specific systems and persons/institution of reference. For example:**

Italian	English	German	French	Spanish	Roumenian
sollevatori	elevators	Aufzüge	ascenseur	Elevadores	elevatoare (mașini de ridicat)
pinze robotiche	robotic grippers	Roboter Greifer	pince de robot	Garras de robot	graifere de robot

sistemi di imballaggio	packaging systems	Verpackungssysteme (or: packaging machine = Verpackungsmaschine)	ystème d'emballage	Sistemas de embalaje	sisteme de ambalare
macchine tessili	textile machines	Textilmaschinen	machine textile	Máquinas textiles	mașini textile
macchine di movimento terra	machine for terrain movement	Baumaschine für Tiefbau	machine tout-terrain (not sure of what you mean here)	Maquinas de movimiento de tierras	mașini de teren
macchine di trasporto	transportation machinery	Transportmaschinen, Fahrzeuge	machine de transport	Máquinas de transporte	mașini de transport
scavatori	excavators	Bagger	pelleteuse	Excavadora	excavatoare
macchine per cucire	sawing machines	Sägemaschinen	scie	Máquina de coser	mașini de debitat (ferăstrău mecanic)
macchine per l'ingegneria civile	machines for civil engineering	Baumaschinen	machine de génie civil	Maquinaria de obras públicas	mașini pentru construcții
macchine idrauliche	hydraulic machines	Hydraulikmaschinen	machine hydraulique	Máquinas hidráulicas	mașini hidraulice
IFTOMM	IFTOMM	IFTOMM	IFTOMM	IFTOMM	IFTOMM
University of Rome	University of Rome	Universität Rom	Université de Rome	Universidad de Roma	Universitatea din Roma
Monge	Monge	Monge	Monge	Monge	Monge
Allievi	Allievi	Allievi	Allievi	Allievi	Allievi
nomi di personalità	names	Namen	noms	Nombres de personalidades	nume
allievo di...	pupil of...	Schüler von/an der/am ...	élève de...	Discípulo de	elevul lui...
professore di ...	teacher of ....	Lehrer von/an der/am ...	professeur de...	Profesor de	profesorul lui...
studente presso ...	student at....	Student der/an der ...	étudiant à...	Estudiante en	student la...
fondatore di ...	founder of ...	Gründer von/des ...	fondateur de...	Fundador de	fondator al...

## ANNEX 3- list of publications

### By UCAS team:

1. Ceccarelli M., 'Francesco Masi (1852-1944)', Distinguished Figures in Mechanism and Machine Science: Their Contributions and Legacies – Part 2, Book series on History of Machines and Machine Science, Vol.7, Springer, Dordrecht, 2010, pp.141-162. DOI 10.1007/978-90-481-2346-9\_8. ISBN: 978-90-481-2345-2
2. Marco Ceccarelli, Michela Cigola, Descriptive Geometry and the Theory of Mechanisms in nineteenth century Italian engineering: similarities and interrelationship, Disegnare: Biannual Magazine of the Survey, Analysis and Drawing Department of the Environment and Architecture, Vol. XX, n. 39, 2009, pp.12-25.
3. Ceccarelli M., The mechanics of Archimedes towards modern mechanism design, The Genius of Archimedes – 23 centuries of influence on Mathematics, Science and Engineering, Book series on History of Machines and Machine Science, Vol.11, Springer, Dordrecht, 2010, pp. 177-187, . ISBN: 978-90-481-9090-4 [DOI: 10.1007/978-90-481-9091-1\\_12](https://doi.org/10.1007/978-90-481-9091-1_12)
4. M. Ceccarelli, Mechanism Designs of Cultural Heritage, 13th World Congress in Mechanism and Machine Science IFToMM 2011, Guanajuato, 2011, paper n. A21-393.
5. H. Kerle, K. Mauersberger, and M. Ceccarelli, Historical Remarks on Past Model Collections of Machines and Mechanisms in Europe, 13th World Congress in Mechanism and Machine Science IFToMM 2011, Guanajuato, 2011, paper n. A21-279.
6. O. Egorova and M. Ceccarelli, Ivan Ivanovich Artobolevski as one of the Founders of IFToMM, 13th World Congress in Mechanism and Machine Science IFToMM 2011, Guanajuato, 2011, paper n. A21-397.
7. Cigola Michela; Ceccarelli Marco, Historical Development of Paper Mills and Their Machines in South Latium During the Nineteenth Century, in: History of Machines for Heritage and Engineering Development, Book series on History of Machines and Machine Science, pp 85-117, Vol.14, Springer, Dordrecht, 2011. ISBN 978-94-007-1250-8; DOI: 10.10007/ 978-94-007-1251-5\_4
8. Marco Ceccarelli and Michela Cigola, On the evolution of graphical representation of gears, Proceeding of MeTrApp 2011 Mechanisms, Transmissions, Applications Workshop, Book series on Machines and Machine Science, Vol.1, Springer, Dordrecht, 2011. pp. 3-14.
9. D'Aliesio E., Ceccarelli M. , A history of artificial hands, Proceedings of IFToMM-FeIbIM Int. Symposium on Mechatronics and Multibody Systems MUSME 2011, Valencia, 2011, paper 37.
10. Cesare Rossi, Marco Ceccarelli, Michela Cigola, La groma, lo squadro agrimensorio e il corobate: note di approfondimento su progettazione e funzionalità di antiche strumentazioni, Disegnare: Biannual Magazine of the Survey, Analysis and Drawing Department of the Environment and Architecture, Vol. XXII, n.42, 2011, pp.22-33. ISBN 978-88-492-2248-7
11. Ceccarelli M., A history of TMM-MMS in Italy, 15<sup>th</sup> National Conference on Machines and Mechanisms, 2011, Chennai, paper NaCoMM2011-59, Edited Book: Machines and Mechanisms, Narosa Publ. House, Delhi, 2012, pp.67-74. ISBN 978-81-8487-192-0.

### By RWTH team:

1. Burkhard CORVES: Kurt Hain and Walther Meyer zur Capellen: A View from Aachen at Two Shapers of German Mechanism Theory. In: E.-C. Lovasz, B. Corves (Ed.): Mechanisms, Transmissions and Applications. Springer Science+Business Media, Dordrecht, 2012, pp. 15-35.

# ANNEX 4 - Simplified Metadata Editor for Persons in ProDB of DMG-Lib

**Simplified Metadata Editor for Persons** Tutorial (Version 1.1, 25.02.2011)

Person search:

**Dmg-ID: 339004**

Name:	Ampère																																																																										
First Name(s):	André-Marie																																																																										
Short Description:	Französischer Physiker und Mathematiker, führte den Begriff Kinematik ein																																																																										
Long Description:	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>Ampere verwannte in seinem Überblickswerk "Essai Sur La Philosophie Des Sciences..." zur Klassifikation der Physik erstmals den Begriff Kinematik. Er verstand darunter das Studium der Bewegung von Körpern ohne Betrachtung der Kräfte, die sie verursachten. Auf ihn geht auch die noch heute gültige Einteilung der Mechanik in Statik und Kinematik zurück. Ampere beschäftigte sich mit einer Vielzahl von Themen wie Wahrscheinlichkeitsrechnung, Analysis, Elektromagnetismus und Licht. Nach ihm ist die Einheit des elektrischen Stromes benannt.</p> </div> <div style="width: 35%;"> <ul style="list-style-type: none"> <li>• enumerations: [u][i]text1 [i]text2 [i]text3 etc.[/u]</li> <li>• forced line break: [br], Hint: \</li> <li>• links: [a][URL]text[/a] example URL: http://www.dmg-lib.org/dmglib/handler?mcidsc=1821025</li> <li>• subscript: [sub]text which is to be subscripted[/sub]</li> </ul> </div> </div>																																																																										
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Example metadata set for Ampère, André-Marie entered in ProDB

## ANNEX 5- timeline for the presentation of Who-is-Who

Select epoch, era

Select category Highlights, literature, persons, inventions

The screenshot shows a digital interface for a 'Who-is-Who' project. At the top, there is a navigation bar with two main sections. The first section, labeled 'Select epoch, era', contains five buttons: 'Frühe Neuzeit 1500 - 1750', 'Industrielle Revolution 1750 - 1850', 'Industrialisierung 1850 - 1920', 'Rationalisierung 1920 - 1950', and 'Automatisierung ab 1950'. The second section, labeled 'Select category Highlights, literature, persons, inventions', contains four buttons: 'Highlights', 'Literatur', 'Personen', and 'Erfindungen'. In the top right corner, there are language options 'Deutsch' and 'Englisch', and a logo for 'DMG'. Below the navigation bar is a horizontal timeline of portrait cards. The card for 'Isaac Newton' is selected and highlighted, with a date range '1643 - 1727' displayed below it. Below the timeline is a profile card for Isaac Newton. The profile card has tabs for 'Isaac Newton', 'Bedeutung', 'Lebenslauf', and 'Literatur'. The 'Bedeutung' tab is active, showing a box with the following text: '+ 4.1.1643 in Woolsthorpe', '† 31.3.1727 in London', and 'Englischer Physiker, Mathematiker, Astronom und Philosoph; gilt als einer der Begründer der Mechanik als moderne Naturwissenschaft'. A link 'weitere Informationen' is located at the bottom right of the profile card.

Name, date of birth/death, short description

Long description

Vita infos

Primary and secondary literature




## ANNEX 6- samples of Who-is-Who biographies

[Back to Search Results](#)
Results: 4 of 55

---

**Atwood, George (1745 - 1807)**



[Click to enlarge](#)

Englischer Mathematiker und Physiker

Atwood beschäftigte sich mit der Lösung physikalischer Probleme durch Anwendung mathematischer Techniken. Er erweiterte die Theorien von Euler und Bouguer über die Stabilität von Schiffen, forschte auf dem Gebiet der Drehschwingungen und erfand eine nach ihm benannte Maschine zur Demonstration und Messung gleichmäßig beschleunigter Bewegungen. Er schrieb auch über die Konstruktion von Gewölben und Brücken.

variant spelling:  
Atwood, George

Curriculum vitae			
* October 1745	London	born	
1773 - 1779	Cambridge	Dozent für "Mechanische und experimentelle Philosophie" am "Trinity College"	
1776	London	Mitglied der "Royal Society"	
1784	London	Angestellter beim Schatzamt	
† 11.07.1807	London	died	


**Literature**

---

**Secondary literature**

[Wer - Was - Wann? Entdeckungen und Erfindungen in Naturwissenschaft und Technik.](#)  
 Author: Conrad, Walter (Ed.)  
 Published: 1989

**Images**



**Permanent links**

Common Library Network (GBV) <http://gso.gbv.de/PPN?PPN=145415317>  
 DMG-Lib ID <http://dmglib.org/dmglib/handler?biogr=1089004>

**Browse for**

Era: Early modern times, ca. 1500-1780

55 hits in this category

[Back to browse](#)

Example of a biography presentation in DMG-Lib

## Giusto Bellavitis (from ProDB)

**Person data**  [Edit](#)  [Edit rights](#)

---

**Bellavitis, Giusto (1803 - 1880)**

Short identifiers :

Name : Bellavitis, Giusto

Relevance (short) : University Professor; Analytic Geometry and Algebra

Relevance (long) : Nato da una famiglia aristocratica studiò matematica senza seguire corsi ufficiali e senza conseguire un titolo universitario. Nonostante ciò divenne professore ordinario di Geometria ed Algebra presso l'Università di Padova (1845-1880). Ha pubblicato circa 200 lavori scientifici.  
 Va ricordato per il suo metodo delle equipollenze, un calcolo geometrico nel piano, alcuni studi sui numeri complessi e per il suo lavoro sulle soluzioni numeriche delle equazioni geometriche.  
 Inoltre diede un importante contributo alla geometria algebrica completando la classificazione iniziata da Newton delle curve cubiche e lavorò sulla Teoria dei numeri.  
 Criticò le geometrie non-euclidee, che negavano il quinto postulato di Euclide.

Acquisition : biography sources  
 Canepa, G. (1992). Le carte di Bellavitis. Appendice B in: P. Freguglia, Dalle equipollenze ai sistemi lineari. Urbino: Quattroventi.  
 Canepa, G. (1994). Le carte di Bellavitis. In: Le Scienze matematiche nel Veneto dell'Ottocento. Atti del terzo seminario delle scienze e delle tecniche nell'Ottocento veneto. Venezia, 22 e 23 novembre 1991 (pp. 49–59). Venezia: Istituto Veneto di Scienze, Lettere e Arti.  
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 Carruccio, E. (1970). Giusto Bellavitis. In: Dictionary of Scientific Biography. New York: Scribner.  
 Freguglia, P. (1992). Dalle equipollenze ai sistemi lineari. Il contributo italiano al calcolo geometrico. Urbino: Quattroventi.  
 Freguglia, P. (2004). Calcolo geometrico e numeri ipercomplessi: origini e primi sviluppi ottocenteschi. Bollettino U.M.I., Sezione A, La Matematica nella Società e nella Cultura. VII, VII–A, 101–125.  
 Legnazzi, E.N. (1881–a). Commemorazione del conte Giusto Bellavitis. Prosperini, Padova.  
 Legnazzi, E.N. (1881–b). Aggiunte illustrative alla commemorazione de Professore Conte Giusto Bellavitis. Padova: Prosperini.  
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 Virgopia, N. (1965). Giusto Bellavitis. In: Dizionario biografico degli italiani. Roma: Istituto dell'Enciclopedia Italiana  
<http://it.wikipedia.org/wiki>  
<http://www.syllogismos.it/history/Bellavitis.pdf>

location of the works  
 Several manuscripts are available at Venezia all'Istituto Veneto di Scienze, Lettere e Arti.  
<http://www.syllogismos.it/>

Portrait picture(s) available at [http://it.wikipedia.org/wiki/File:Giusto\\_Bellavitis.Gif](http://it.wikipedia.org/wiki/File:Giusto_Bellavitis.Gif)

Internal : created/changed with simple person editor:

Last change : on 13.01.2012 at 18:26 by Carbone, Giuseppe (carbone)

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**tabular curriculum vitae**  [Inizia in ordine crescente](#)

1	3945006 *	1803	Bassano del Grappa, Italy	22 November born
2	4068006	M 1843		nominated professor of mathematics at high school "liceo di Vicenza"
3	4076006	M 1845		Honoris Causa degree at University of Padova
4	4069006	M 1845		Full professor of Analytic Geometry and Algebra at University of Padova
5	4071006	M 1850		Since 1850 member of the National Academy of Science
6	4070006	M 1854		since 1880 member of the National Academy of the Lincei
7	4074006	M 1863		1863-1865 President of "Veneto" Institute of Science, Letters and Arts

8	4072006	M	1866	nominated Senator of Italian Kingdom
9	4073006	M	1875	President of Gallean Academy of Science, Letters and Arts
10	3946006	†	1880	Stroppari di Tezze sul Brenta, Italy 06 November 1880 dead

**Documents found** ☰  ⚙️

1	16676009	••••	B	Lezioni di Geometria descrittiva	Bellavitis(•) 1868
2	14517009	••••		Saggio di applicazioni di un nuovo metodo di geometria analitica (Calcolo delle equipollenze)	Bellavitis(•) 1835
3	14516009	••••		Sopra alcune applicazioni di un nuovo metodo di geometria analitica.	Bellavitis(•) 1833
4	14515009	••••	A	Sulla geometria derivata	Bellavitis(•) 1832

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**Images found** ☰  ⚙️

1	4869023	Bellavitis portrait	
2	6049023	Bellavitis portrait_1	
3	6305023	Cover Book: Lezioni di Geometria Descrittiva, 1868	
4	6306023	Tavola N° 1 - estratta da "Lezioni di Geometria Descrittiva", 1868	
5	6307023	Tavola N° 2 - estratta da "Lezioni di Geometria Descrittiva", 1868	
6	6308023	Tavola N° 3 - estratta da "Lezioni di Geometria Descrittiva", 1868	
7	6309023	Tavola N° 4 - estratta da "Lezioni di Geometria Descrittiva", 1868	
8	6310023	Tavola N° 5 - estratta da "Lezioni di Geometria Descrittiva", 1868	