

Historia y memoria de un centenario: la química en España y en el mundo en 1913

Agustí Nieto-Galan

Centre d'Història de la Ciència (CEHIC)
Universitat Autònoma de Barcelona (UAB)

SCIENCE IN THE PROVINCES

SCIENTIFIC COMMUNITIES
AND PROVINCIAL LEADERSHIP
IN FRANCE, 1860–1930



MARY JO NYE



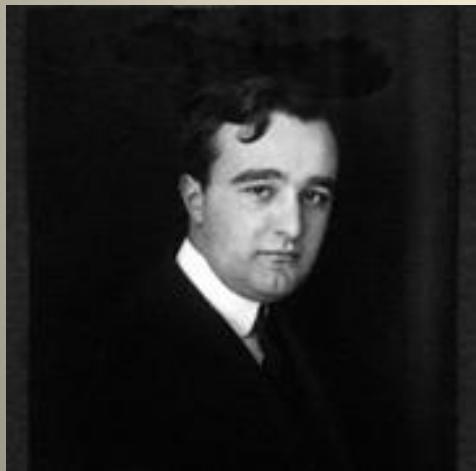
Bernabé Dorronsoro



Gonzalo Gallas



Jesús Yoldi



Antonio Madinaveitia

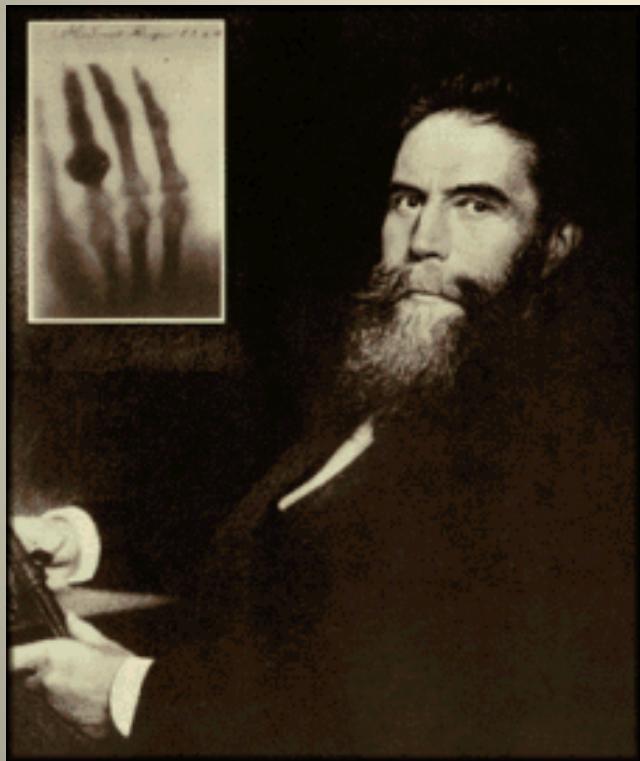


Obdulio Fernández



Pasqual Nácher

De los rayos X a la química física



1895, Wilhelm Conrad Röntgen



1897, Bernabé Dorronsoro



Wilhelm Ostwald



Svante Arrhenius



Jacobus van't Hoff

$$\Delta V = \text{const.} (\text{Boyle & Mariotte})$$

$$P_0 + \frac{P_0}{273} T = P_0(1+\alpha t) \quad \left. \begin{array}{l} \text{Gay-Lussac} \\ \text{Charles} \end{array} \right\}$$

$$V_0(1+\alpha t)$$

$$V = nRT$$

$$PV = \frac{W}{M} RT$$

$$T + 273$$

Volumetro por dilatacion

Materias

	V total	Pression
B ₁	9.230,30 l	60,00 mm
B ₁ +B ₂	4.476,16	70
B ₁ +B ₂ +B ₃	6.533,97	16
B ₁ +B ₂ +B ₃ +B ₄	8.595,182	7,2
B ₁ +B ₂ +B ₃ +B ₄ +B ₅	10,6	



Enrique Moles



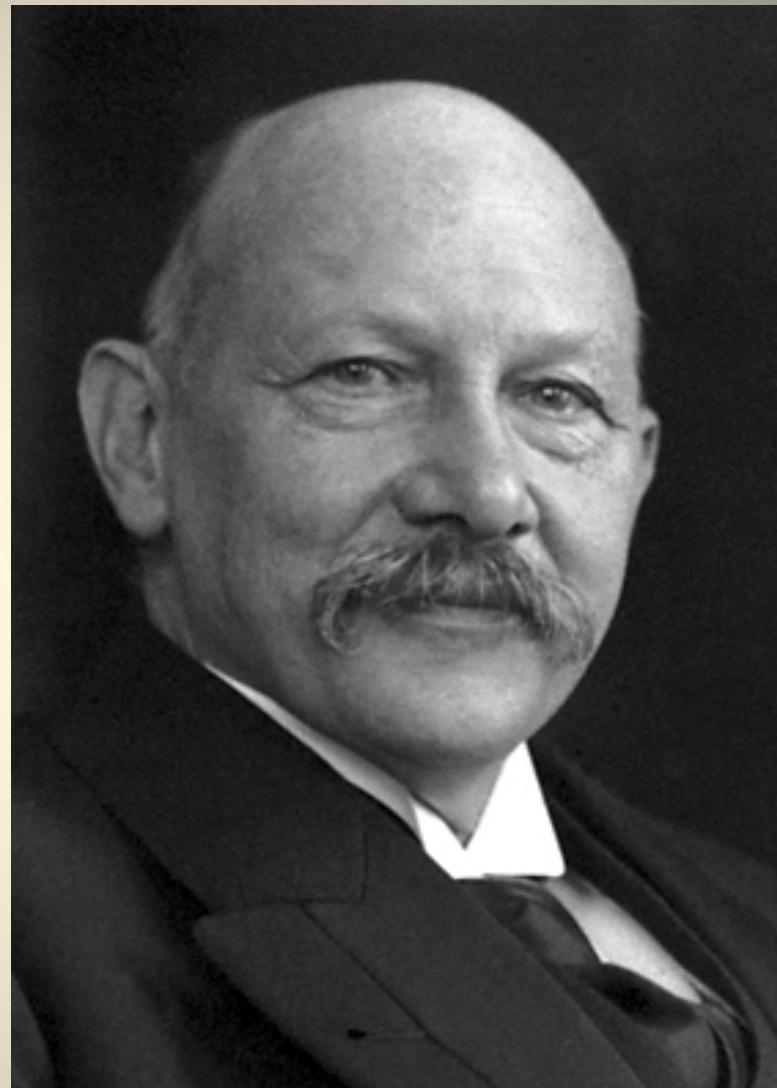
Enrique Moles



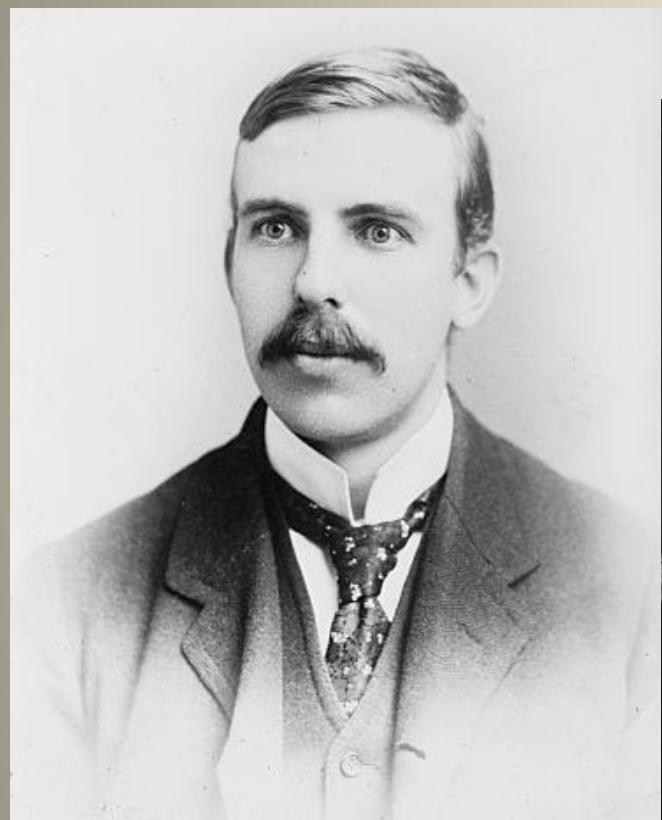
Wilhelm Ostwald



Julio Palacios



Heike Kamerlingh Onnes



Ernest Rutherford



Marie Curie



Henry Moseley

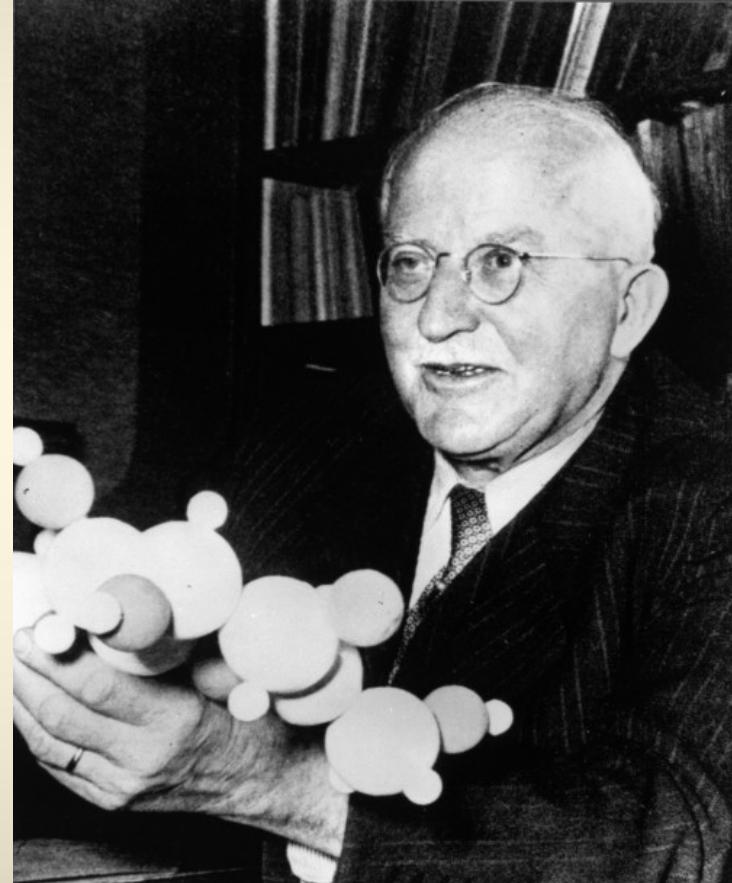


VERSCHAFFELT NERNST	HASENOHRL RUTHERFORD	LAUE WIEN	RUBENS BRAGG	GOLDSCHMIDT Mme CURIE	HERZEN SOMMERFELD	LINDEMANN EINSTEIN	de BROGLIE BRILLOUIN	POPE BARLOW	GRUNEISEN KAMERLINGH ONNES	HOSLET WOOD	KNUDSEN GOUY	LANGEVIN WEISS
------------------------	-------------------------	--------------	-----------------	--------------------------	----------------------	-----------------------	-------------------------	----------------	-------------------------------	----------------	-----------------	-------------------

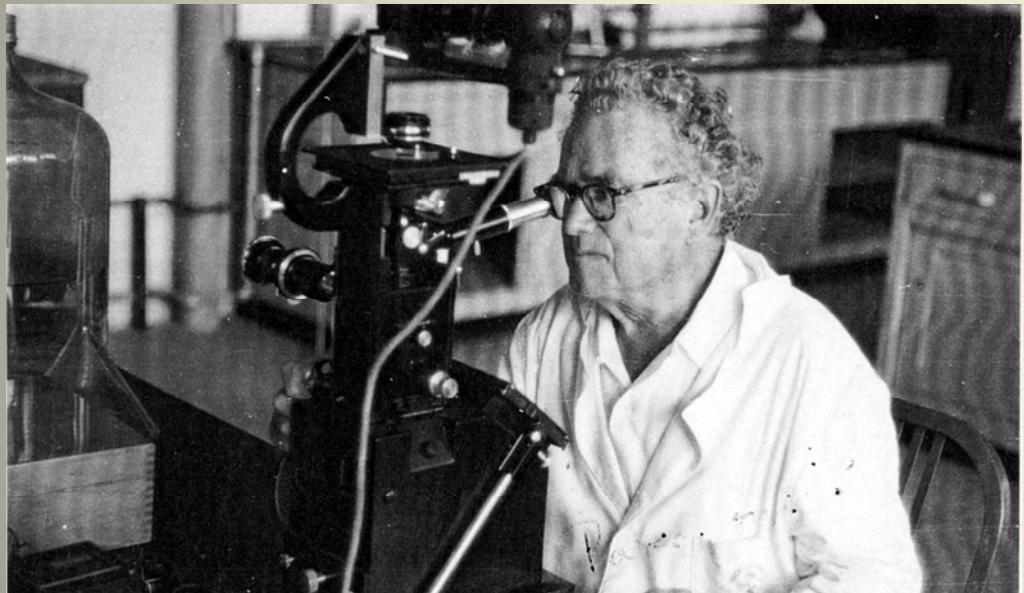
De Granada a Zurich: química orgánica, farmacia y medicina



Gonzalo Gallas



Hermann Staudinger



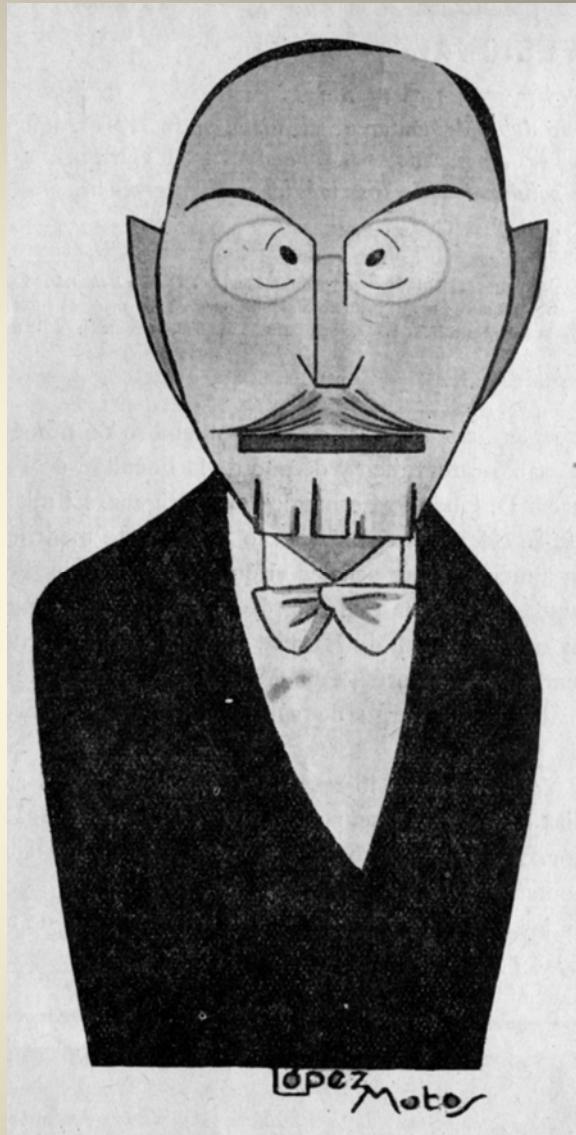
Antonio García Banús



Alfred Werner



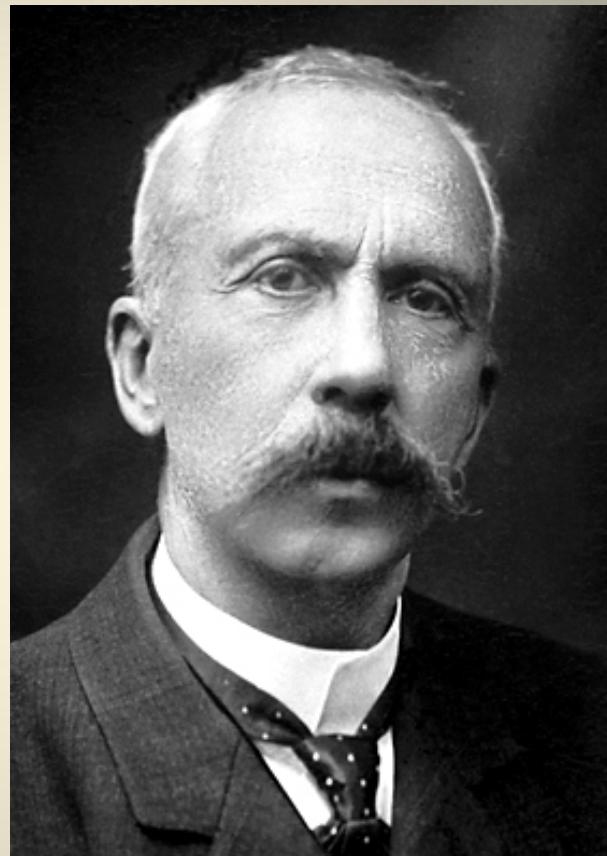
Antonio Madinaveitia



Obdulio Fernández



Pascual Nácher



Charles Richet

A vueltas con la historia y la memoria

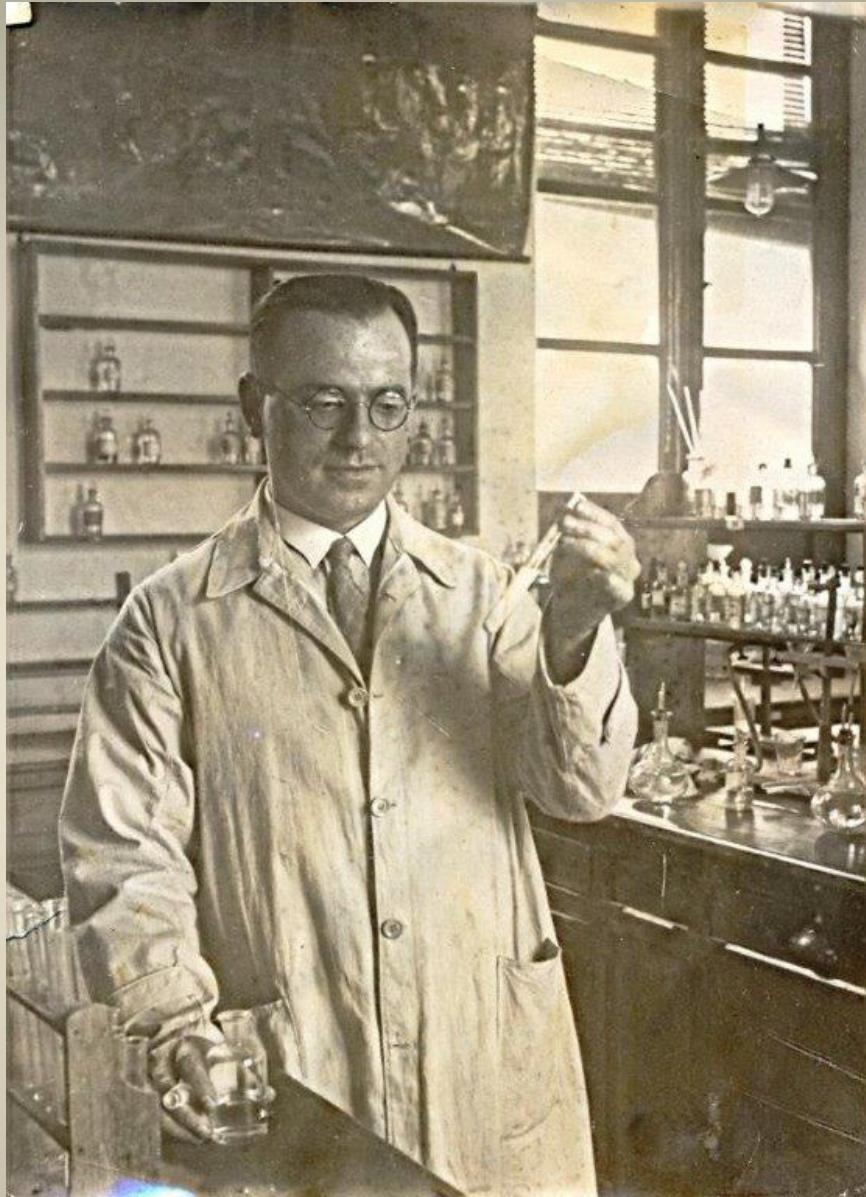




Víctor Grignard



Fritz Haber



Jesús Yoldi Bereau (1894-1936)