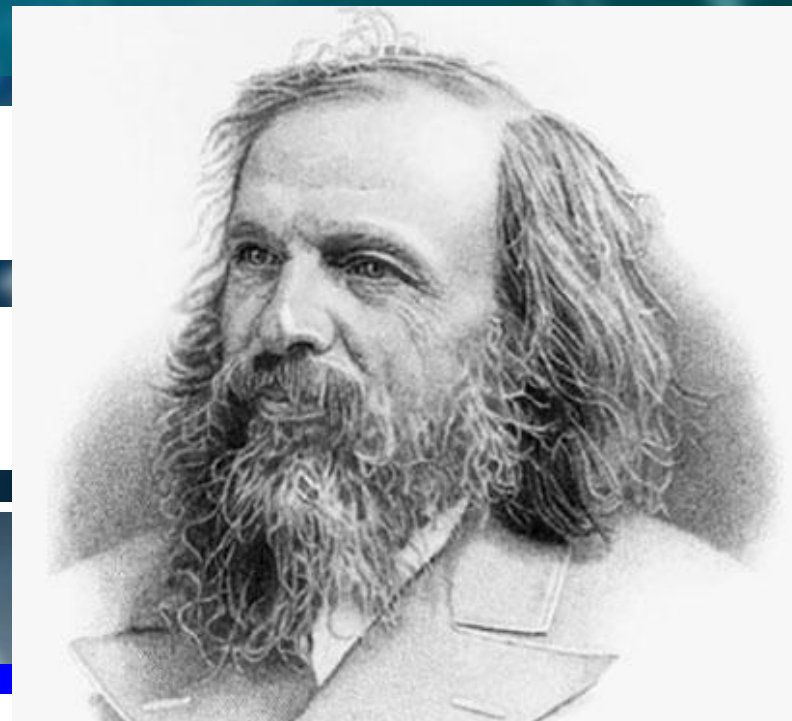


Д. И. Менделеев и периодическая система элементов

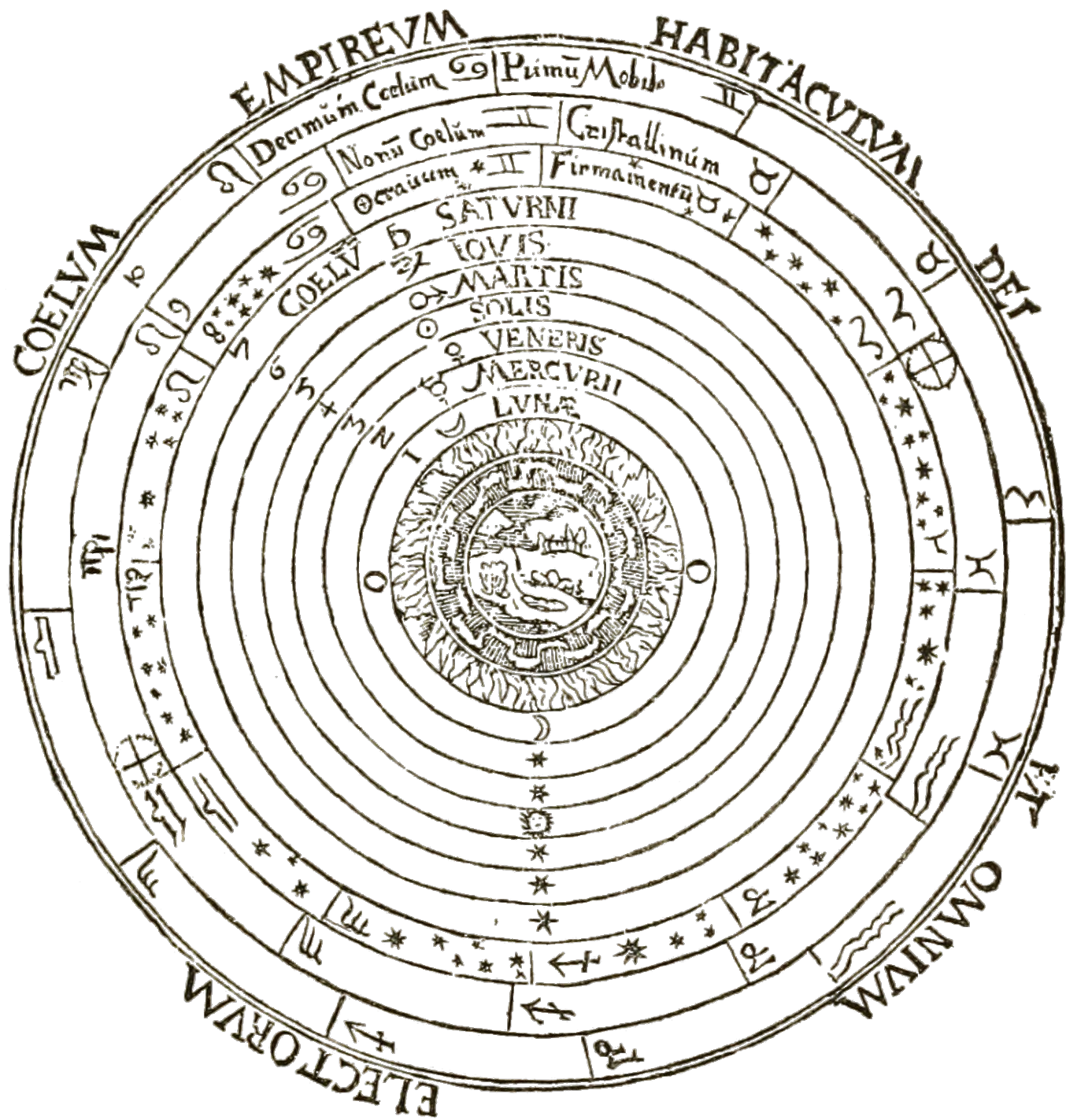
*185 лет со дня рождения
великого русского учёного*

- К 150-летию открытия Периодического
закона химических элементов*



**2019 год – Международный год Периодической
таблицы химических элементов.**





DALTON'S 36 CHEMICAL SYMBOLS (CREATED IN 1803)

OXYGEN	HYDROGEN	NITROGEN	CARBON	SULFUR	PHOSPHORUS	GOLD	PLATINUM	SILVER
MERCURY	COPPER	IRON	NICKEL	TIN	LEAD	ZINC	BISMUTH	ANTIMONY
ARSENIC	CALCIUM	MANGANESE	URANIUM	TUNGSTEN	TITANIUM	CERIUM	POTASSIUM	SODIUM
CALCIUM	MAGNESIUM	BARIUM	STRONTIUM	ALUMINIUM	SILICON	YTTRIUM	BERYLLIUM	ZIRCONIUM



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						1 H 1.00794	2 He 4.002602
		5 B 10.811	6 C 12.0107	7 N 14.00674	8 O 15.9994	9 F 18.9984032	10 Ne 20.1797
		13 Al 26.981538	14 Si 28.0855	15 P 30.973761	16 S 32.066	17 Cl 35.4527	18 Ar 39.948
29 Cu 63.546	30 Zn 65.39	31 Ga 69.723	32 Ge 72.61	33 As 74.92160	34 Se 78.96	35 Br 79.904	36 Kr 83.80
47 Ag 107.8682	48 Cd 112.411	49 In 114.818	50 Sn 118.710	51 Sb 121.760	52 Te 127.60	53 I 126.90447	54 Xe 131.29
79 Au 196.96655	80 Hg 200.59	81 Tl 204.3833	82 Pb 207.2	83 Bi 208.98038	84 Po (209)	85 At (210)	86 Rn (222)



**Йёнс Якоб
Берцелиус
(1779-1848)**

Ordre ~~de~~ ^{des} ~~éléments~~ ^{éléments} ~~de~~ ^{de} ~~la~~ ^{de} ~~chimie~~ ^{chimie} ~~et~~ ^{et} ~~de~~ ^{de} ~~la~~ ^{de} ~~physique~~ ^{physique}

~~de~~ ^{de} ~~la~~ ^{de} ~~chimie~~ ^{chimie} ~~et~~ ^{et} ~~de~~ ^{de} ~~la~~ ^{de} ~~physique~~ ^{physique}
 D. Mendeleev.

Manuscript
 1869. n. 1. 1. 1. 1. 1.

	$Pi = 58$	$Re = 90$	$? = 100$
	$U = 51$	$Nb = 94$	$Pa = 182$
	$Ci = 52$	$La = 76$	$W = 186$
	$La = 55$	$Rh = 104$	$Os = 197.4$
	$Sc = 56$	$Mo = 104$	$Ir = 198$
	$Ni = 58$	$Pt = 186$	$Cu = 199$
$H = 1$	$? = 8$	$? = 22$	$Cu = 63.4$
Li	$Li = 7$	$Li = 7$	$La = 100$
	$B = 11$	$B = 11$	$Os = 192$
	$C = 12$	$Si = 28$	$Ni = 116$
	$Na = 14$	$P = 31$	$La = 118$
	$O = 16$	$S = 32$	$Sc = 182$
	$F = 19$	$Cl = 35.5$	$Bi = 210$
$Al = 13$	$Na = 23$	$K = 39$	$C = 12$
		$Rb = 85.4$	$Os = 192$
		$Ce = 140$	$La = 132$
		$? = 45$	$Pa = 201$
		$Co = 58$	$Pb = 207$
		$La = 58$	
		$? = 60$	
		$? = 72$	
		$? = 72$	

Essai d'une ^{systeme} des éléments
 d'après leurs poids atomiques et
 fonctions chimiques par D. Mendeleev
 et autres chimistes célèbres.

18 $\frac{II}{17}$ 69.

Кад. па. и. б.
 200. 10. 20. 10.
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 200. 10. 20. 10.

Ordre de la chimie et de la physique

ESSAI D'UNE SYSTÈME DES ÉLÉMENTS

D'APRES LEURS POIDS ATOMIQUES ET FONCTIONS CHIMIQUES,

par **D. Mendeleeff**,

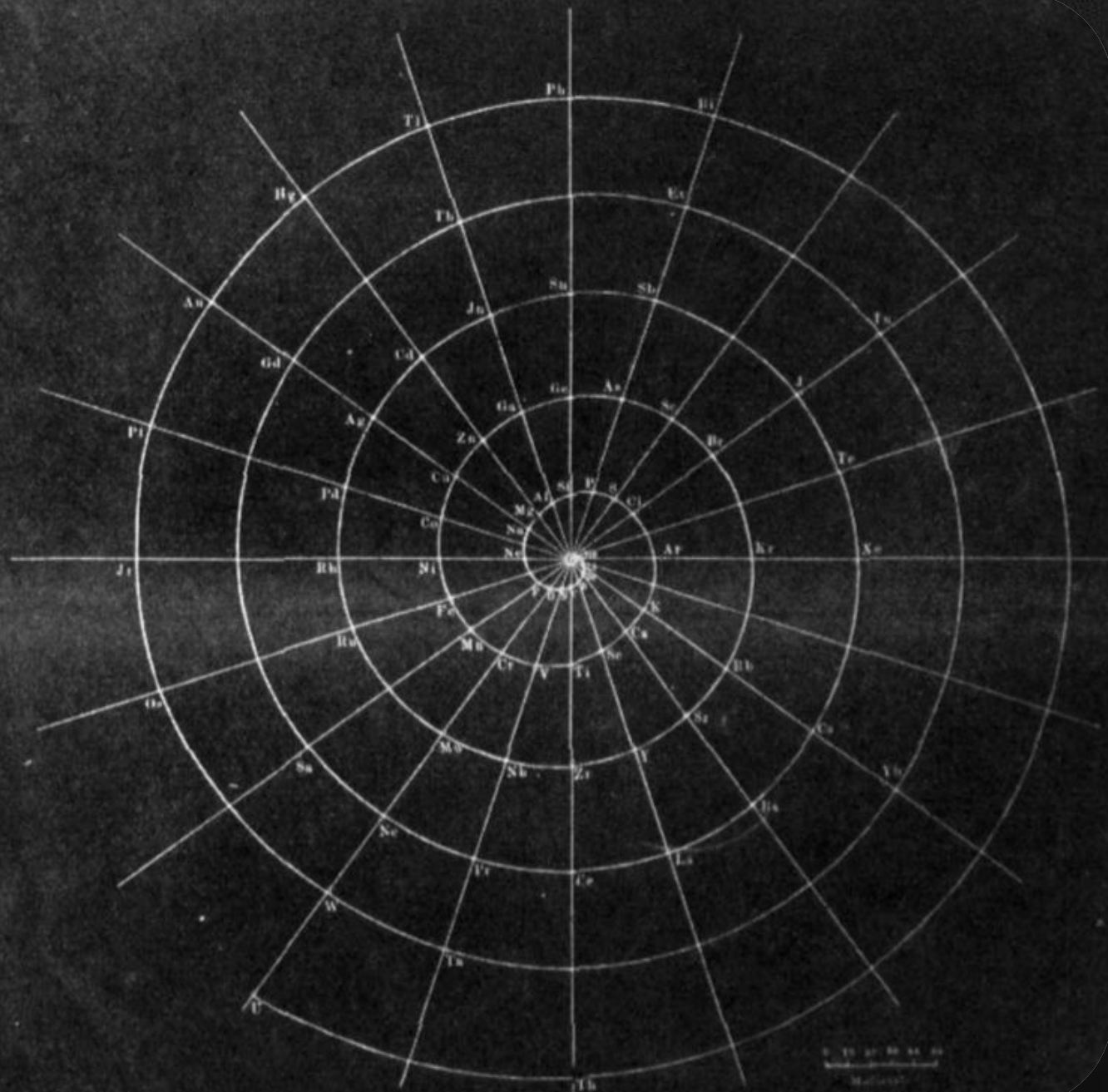
profess. de l'Univers. à S-Pétersbourg.

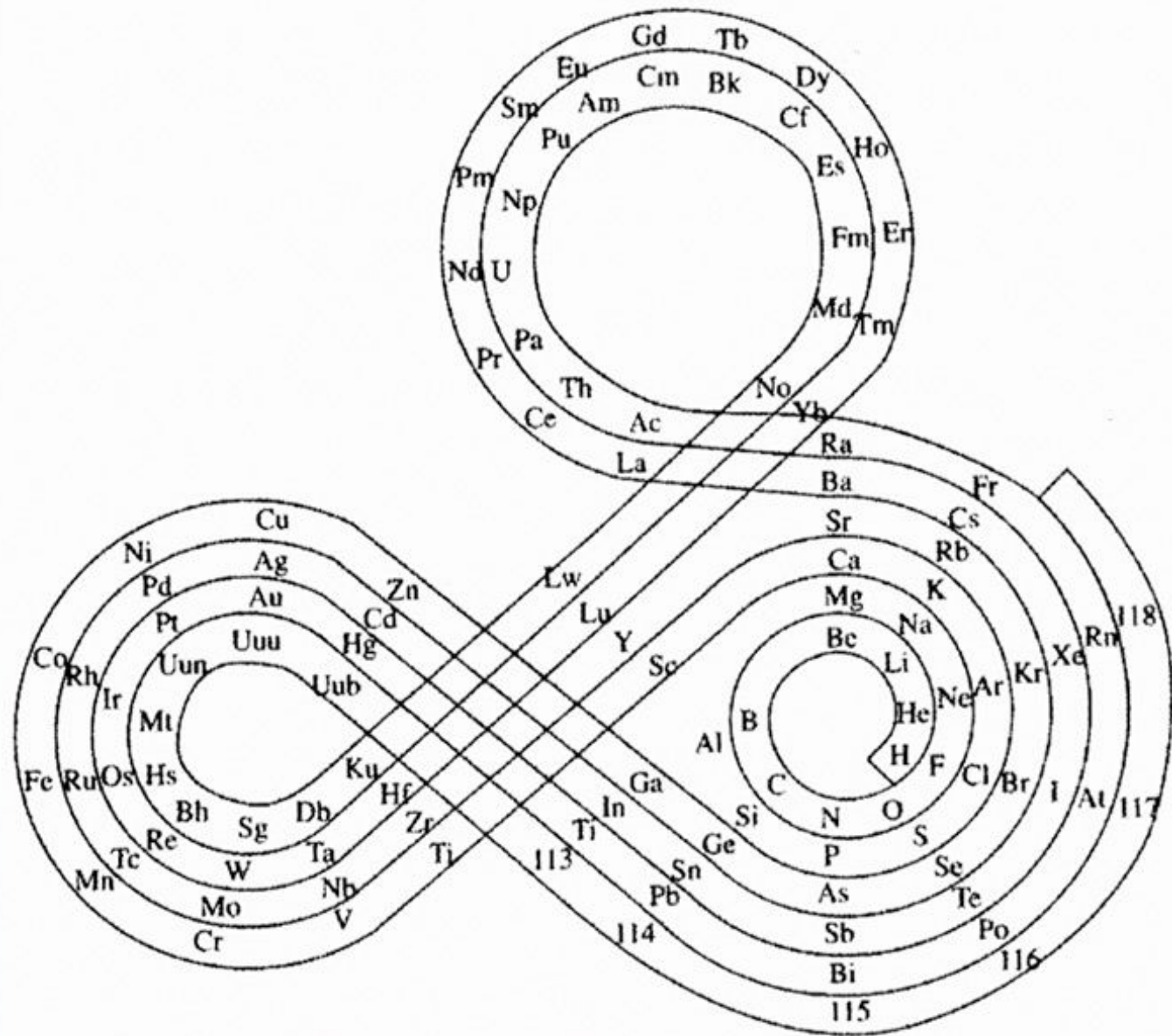
		Ti=50	Zr= 90	?=180.	
		V=51	Nb= 94	Ta=182.	
		Cr=52	Mo= 96	W=186.	
		Mn=55	Rh=104,4	Pt=197,9	
		Fe=56	Ru=104,4	Ir=198.	
		Ni=Co=59	Pt=106,6	Os=199.	
H=1		Cu=63,4	Ag=108	Hg=200.	
	Be= 9,4	Mg=24	Zn=65,2	Cd=112	
	B=11	Al=27,4	?=68	Ur=116	Au=197?
	C=12	Si=28	?=70	Sn=118	
	N=14	P=31	As=75	Sb=122	Bi=210?
	O=16	S=32	Se=79,4	Te=128?	
	F=19	Cl=35,5	Br=80	I=127	
Li=7	Na=23	K=39	Rb=85,4	Cs=133	Tl=204.
		Ca=40	Sr=87,6	Ba=137	Pb=207.
		?=45	Ce=92		
		?Fr=56	La=94		
		?Yt=60	Di=95		
		?In=75,6	Th=118?		

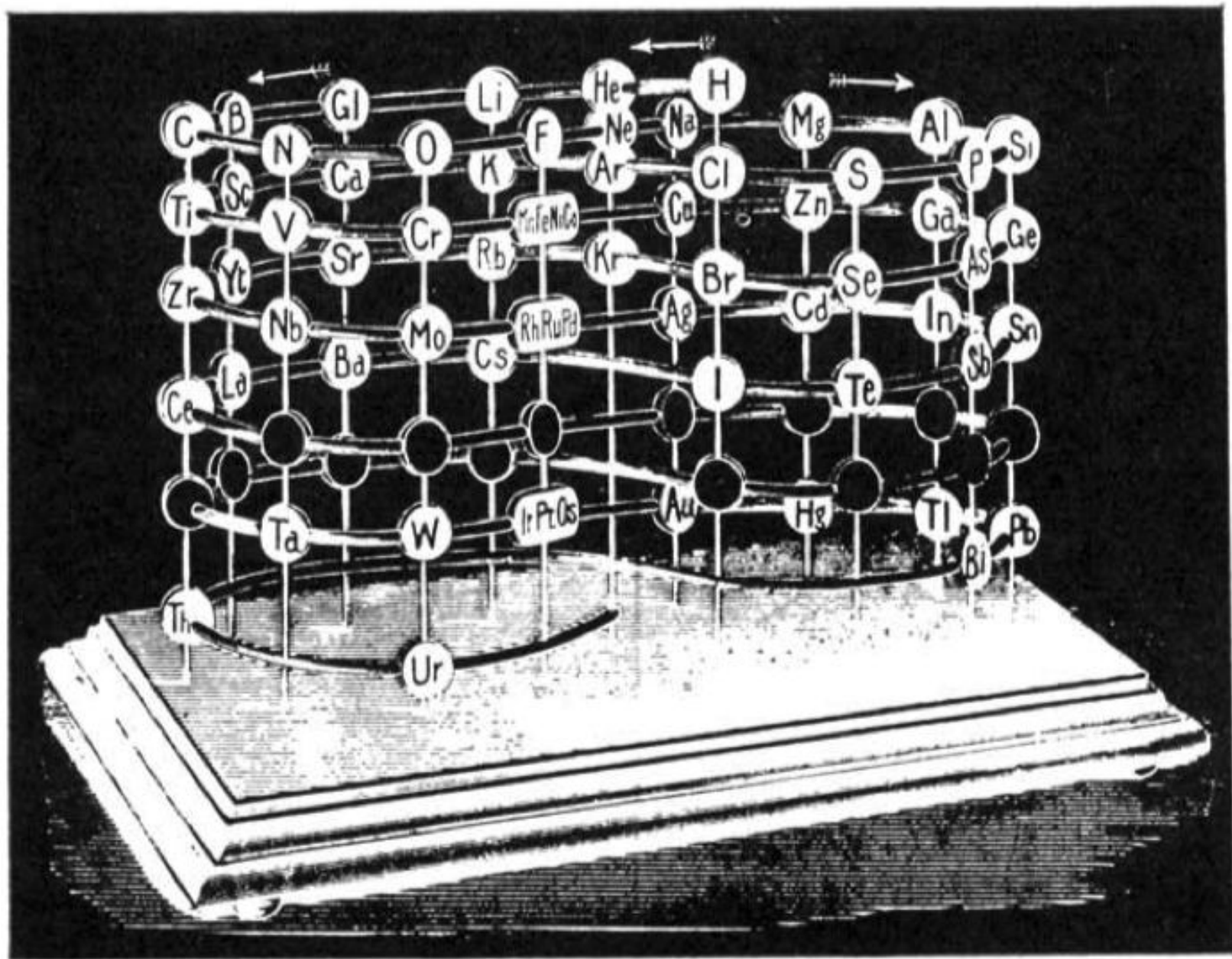
ds.

Shell
subst

1	2												
H	He												
3	4												
Li	Be												
5	6	7	8	9	10								
B	C	N	O	F	Ne								
11	12												
Na	Mg												
13	14	15	16	17	18								
Al	Si	P	S	Cl	Ar								
19	20												
K	Ca												
21	22	23	24	25	26	27	28	29	30				
Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn				
31	32	33	34	35	36								
Ga	Ge	As	Se	Br	Kr								
37	38												
Rb	Sr												
39	40	41	42	43	44	45	46	47	48				
Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd				
49	50	51	52	53	54								
In	Sn	Sb	Te	I	Xe								
55	56												
Cs	Ba												
57	58	59	60	61	62	63	64	65	66	67	68	69	70
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb
71	72	73	74	75	76	77	78	79	80				
Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg				
81	82	83	84	85	86								
Tl	Pb	Bi	Po	At	Rn								
87	88												
Fr	Ra												
89	90	91	92	93	94	95	96	97	98	99	100	101	102
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No
103	104	105	106	107	108	109	110	111	112				
Lw	Ku												
113	114	115	116	117	118								
119	120												







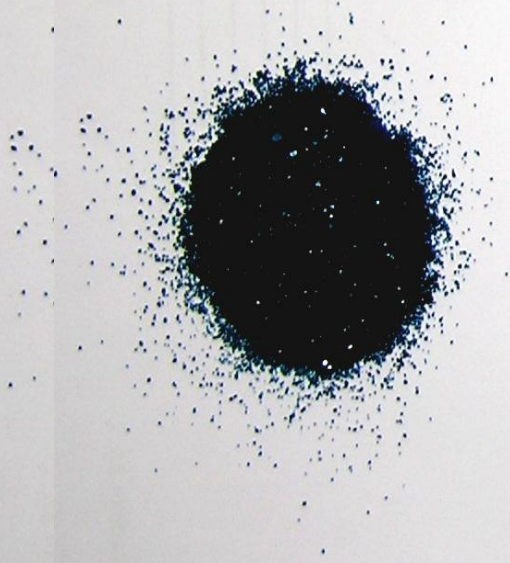


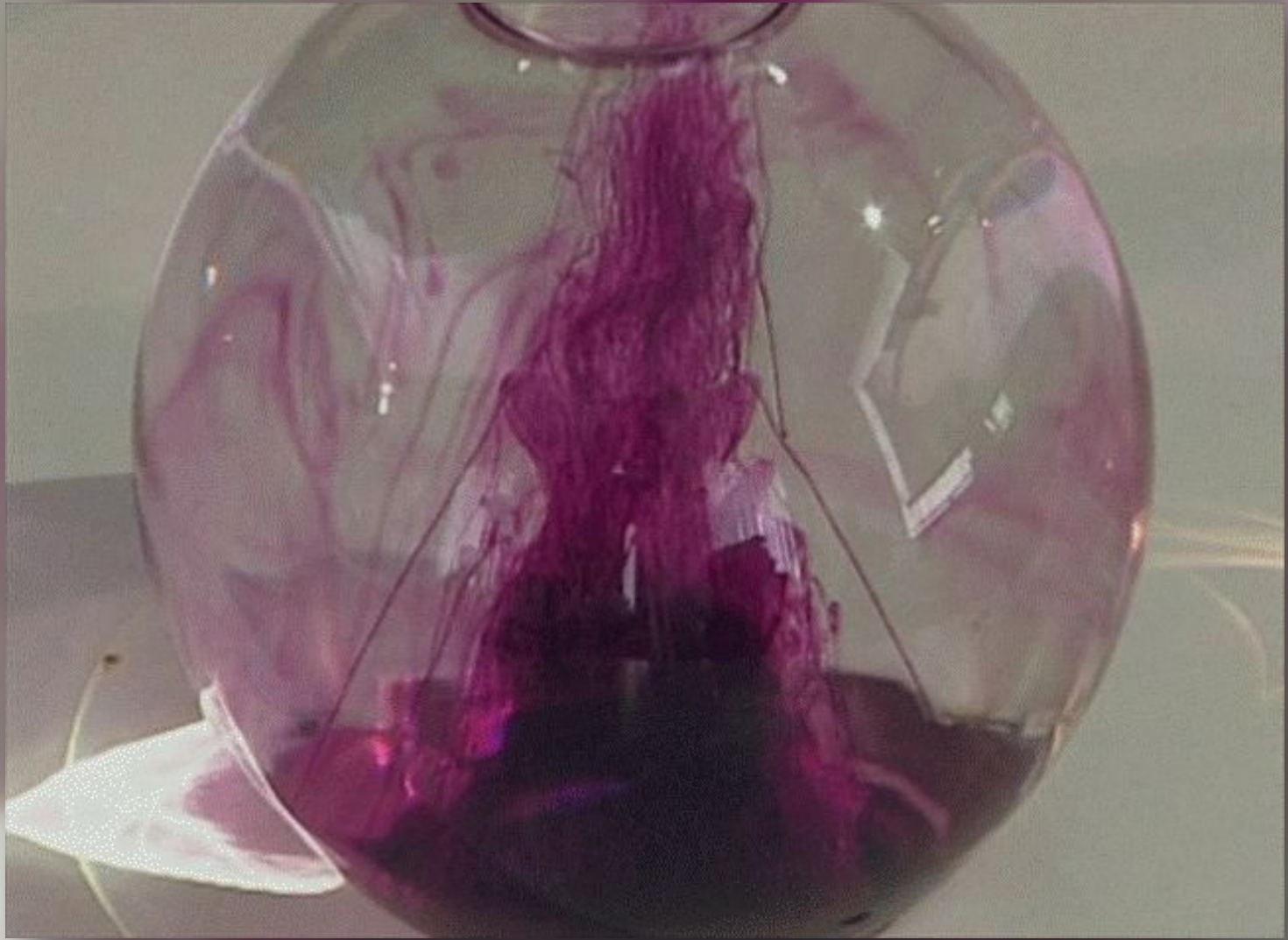


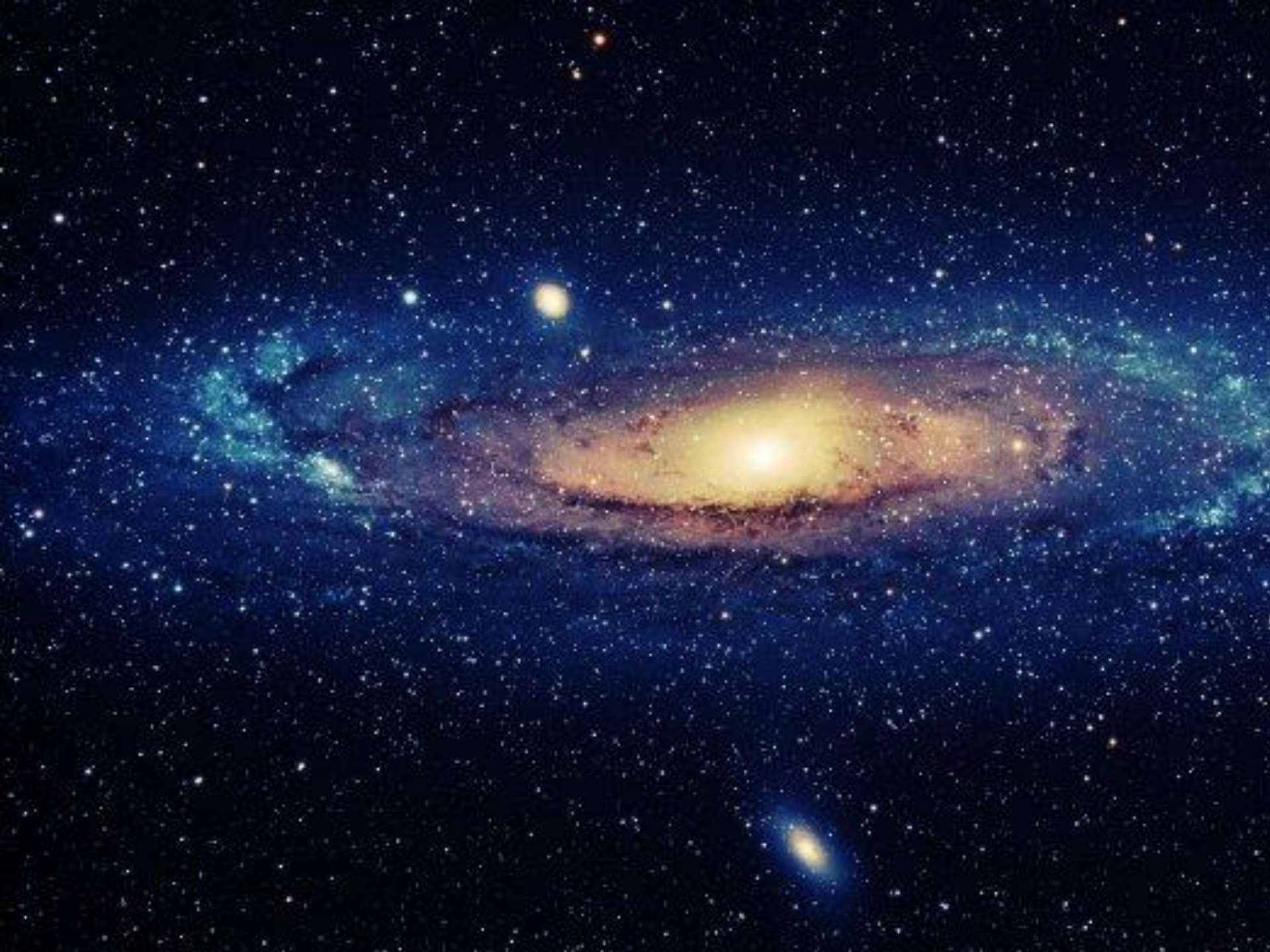


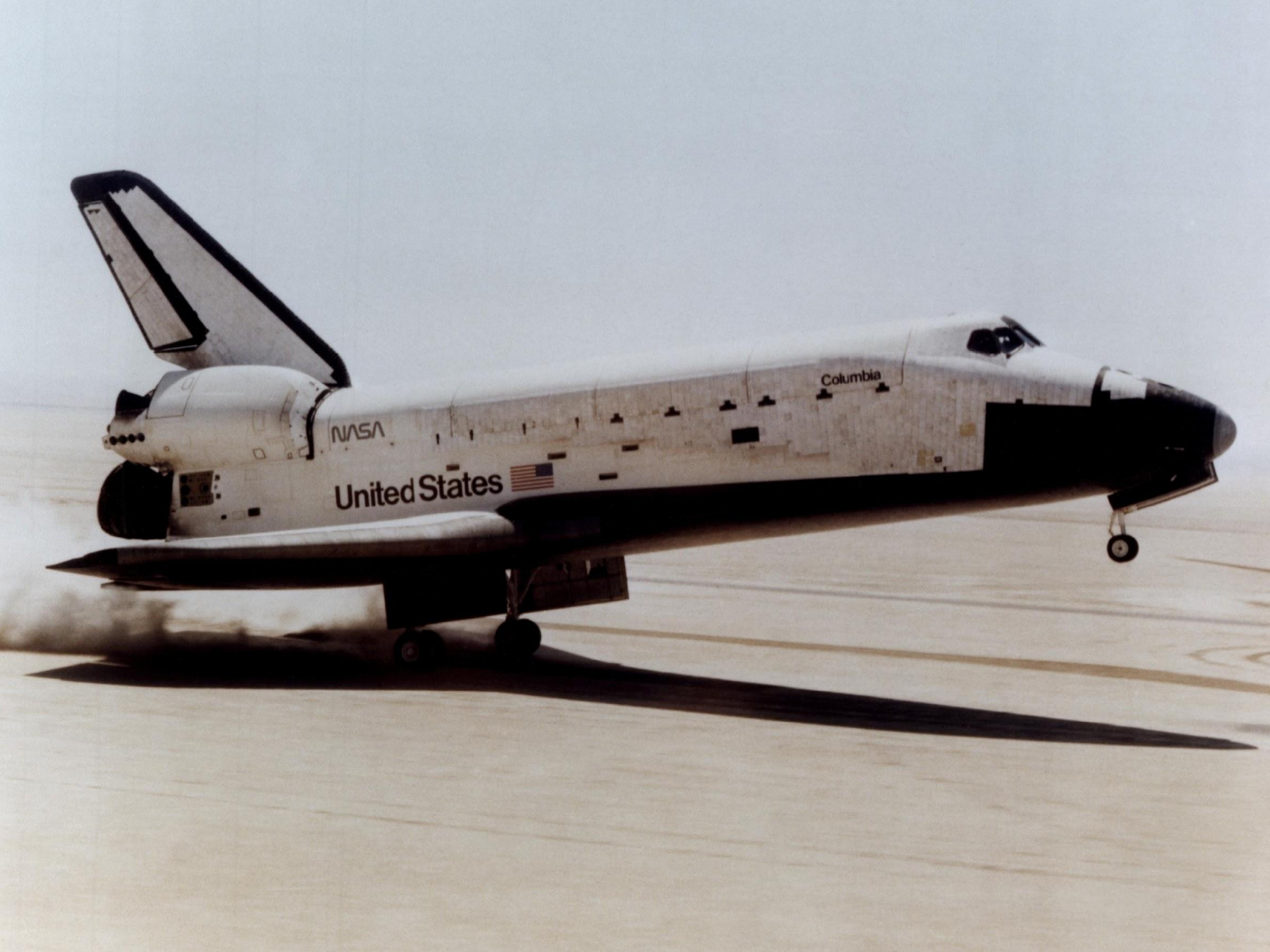








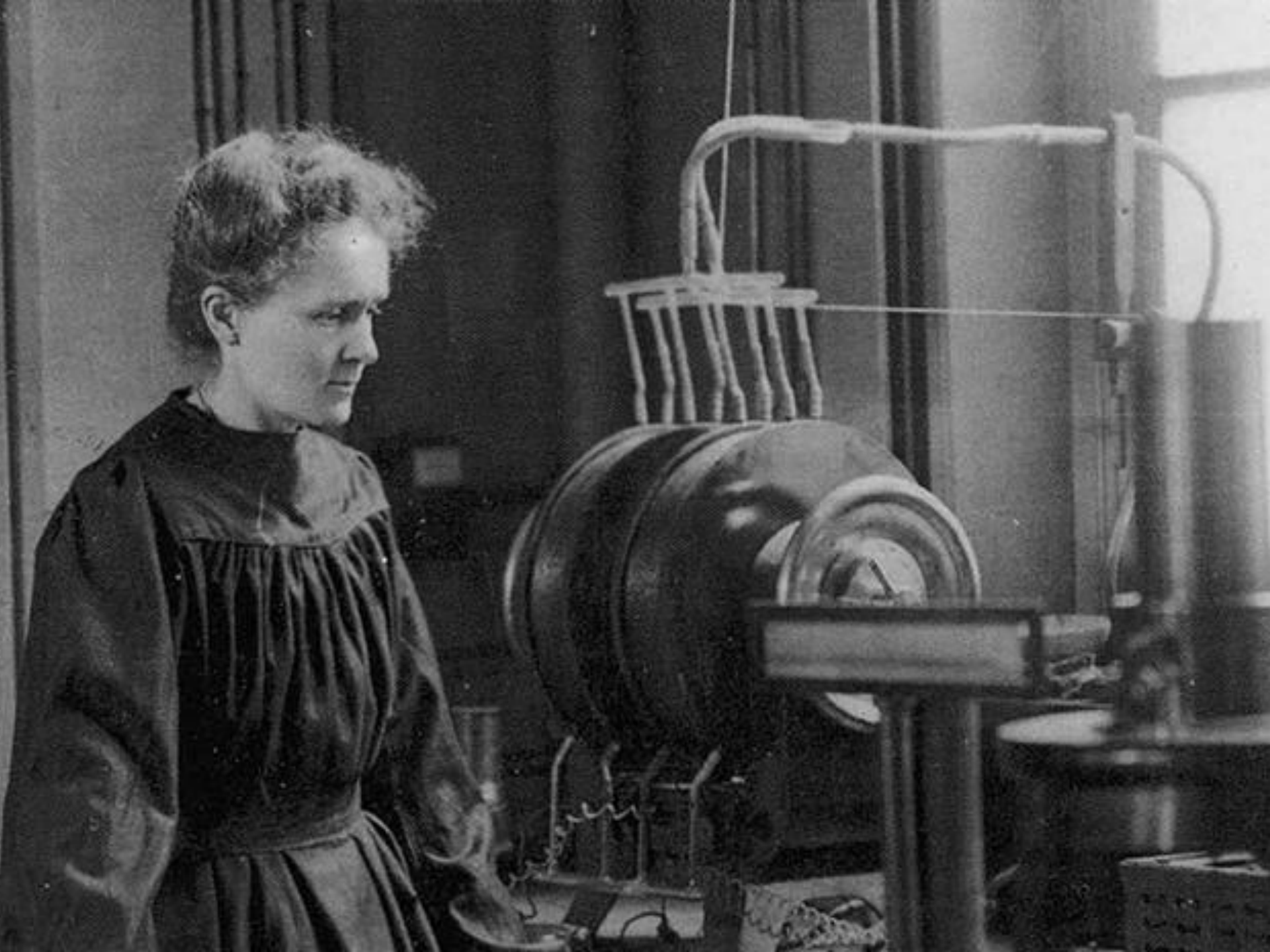




NASA

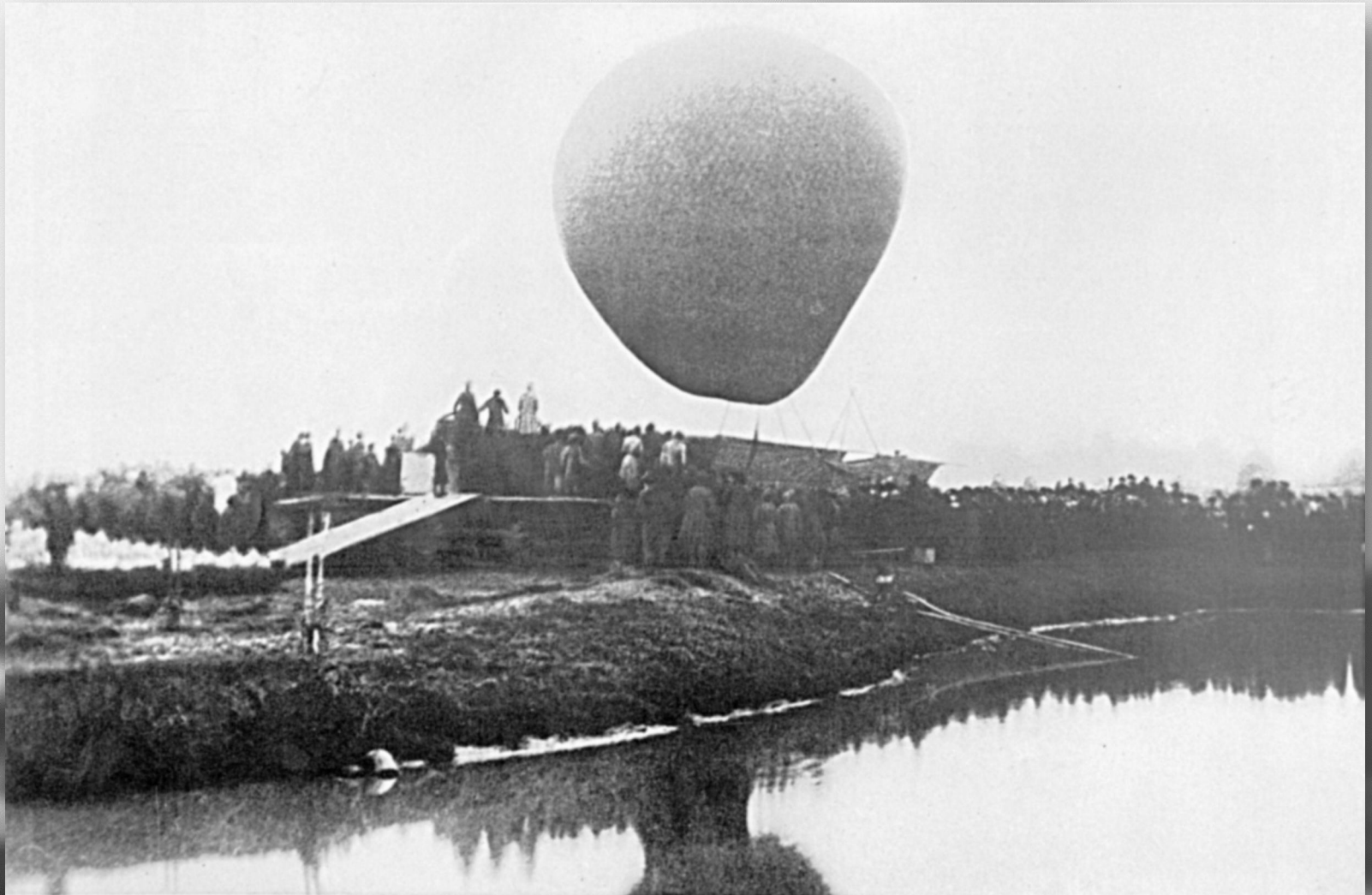
United States 

Columbia













**Русские художники на одной из
"менделеевских сред", 1888 г.**



