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Kimia Unsur
Chemical Elements

Meeting – 11
Every Thursday
at 7 – 9.30 am

Dr.paed. Nurma Yunita Indriyanti, M.Si., M.Sc.
2016

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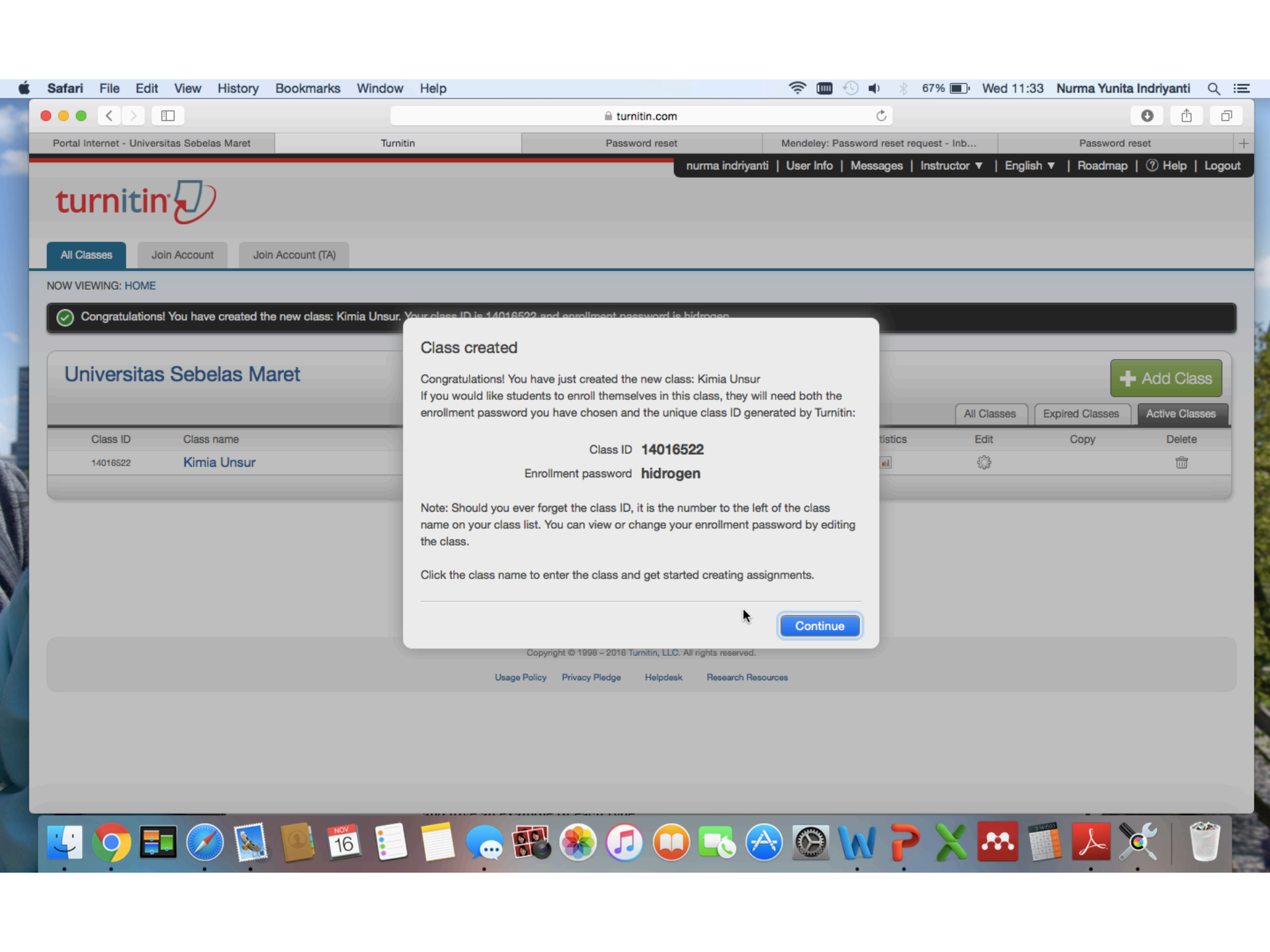
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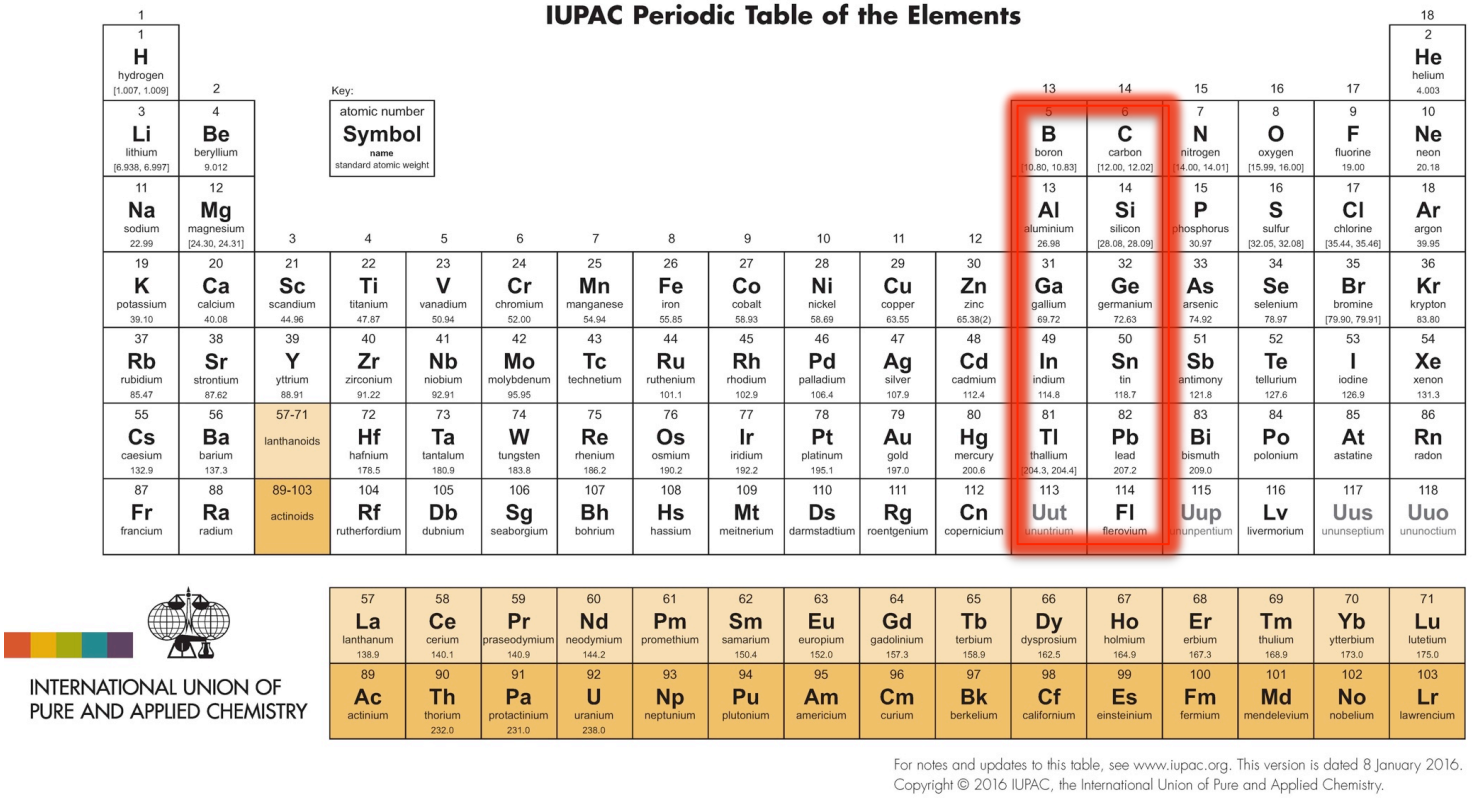
Tentative Schedule: Tentative lecture topic coverage, subject to change.

Meeting	Date	Topic
9	25-10-2016	Refresh: Studium General ''Chemistry in Context''
10	03-11-2016	Introduction, Hydrogen
	10-11-2016	
11	17-11-2016	Group 1A, IIA (1,2)
12	**24-11-2016**	**Group IIIA, IVA (13,14)**
13	01-12-2016	Group VA, VIA (15,16)
14	08-12-2016	Group VIIA, VIIIA (17,18)
15	15-12-2016	Group IB,IIB, IIIB (3,11,12)
16	22-12-2016	Group IVB, VB, VIB (4,5,6)
17	29-12-2016	Group VIIB-VIIIB (7,8,9,10)
18	05-01-2017	Final Exam

Periodic table of elements



Discussion

- Which hydrogen bond would you expect to be stronger, S-H……O or O-H……S?
- Describe the expected physical properties of water in the absence of hydrogen bonding.

IUPAC def (2011)

- The hydrogen bond is an attractive interaction between a hydrogen atom from a molecule or a molecular fragment X–H in which X is more electronegative than H, and an atom or a group of atoms in the same or a different molecule, in which there is evidence of bond formation.[6]

Result of Quiz 1

- A : All three problems are correct 0%
- B : two out of three problems are correct 20%
- C : one out of three problems is correct 55%
- D : 3 problems are incorrect 25%

Evaluation

- **60% Exam and HW/Quiz**

- 40 % Final Exam
- 20 % HW/Quiz

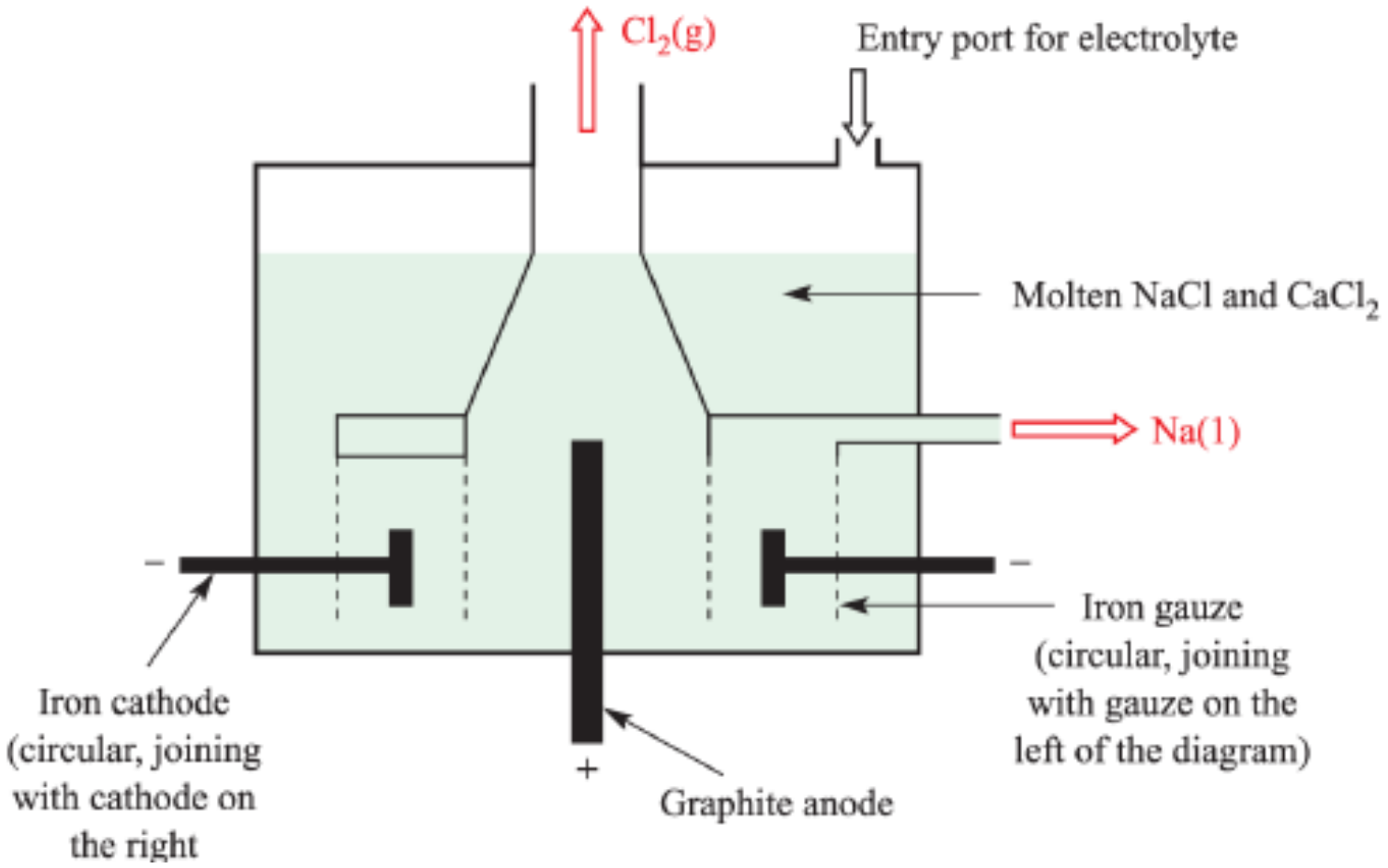
- **40% Presentation task**

- 10% Presentation
- 10% content of the presentation
- 10% participation
- 10% Written Task

Lithium

- Reaction with alcohol
- It produces alkoxide
- Li + R-OH → R-O-Li + H_2

Down's Process



Beryllium
(some anomalous behaviour?)

Because of small size and highest ionization energy and electronegativity

References

- Huheey et al., Inorganic Chemistry (book)
- Prakash et al., Advanced Inorganic Chemistry (book)
- Journal of Inorganic chemistry
- Journal of chemical education
- Download lecture materials:
- http://nurma.staff.uns.ac.id