TOPICS for PRESENTATIONS:

0. * Proposition 3B.1, (pages 269-271)[JP]
1. * CW complex structure of $SO(n)$[SY]
2. Mod 2 cohomology of $SO(n)$
3. Integral cohomology of $SO(n)$
4. * Stiefel Manifolds[HH]
5. * Bockstein Homomorphism, Examples 3E.1 and E.2[NK]
6. Bockstein Homomorphism, Proposition 3E.3 and Corollary 3E.4
7. Bockstein Homomorphism, Example 3E.6
8. Bockstein Homomorphism, Example 3E.7

* means that the topic is taken
** presented

Home Work 1 (Quiz on February 5th)
(page 165) Exercises: 2, 4;
(pages 176-177) Exercises: 1, 2, 8, 10;
(page 184) Exercises: 3, 5.

Home Work 2 (Quiz on March 1st)
(pages 204-205) Exercises: 1, 2, 6, 7, 9, 11;
(page 267) Exercises: 1, 2.

Home Work 3 (Quiz on March 31st)
(pages 228-230) Exercises: 1, 3(a), 7, 8, 11;
(page 257) Exercises: 2, 3, 7, 11.

Q&A1 Set (for Friday January 29th)
Problem 3, page 165
Problems 3, 4, 11, pages 176-177
Problems 2, 9 page 184

EXTRA CREDIT PROBLEMS:

1. Problem 1 (3 pts) Prove that $H_n(X \times \mathbb{R}^\infty) = \bigoplus_{i \leq n} H_i(X; \mathbb{Z}_2)$.

Credit for *-problems will be given to first 4 persons who bring a correct solution to my office. Then the problem will be removed from the list.