1. DAY 1: HISTORY; HIGHER HOMOTOPIES THE SIMPLE OLD-FASHIONED WAY

(1) Overview
(2) Talk 1: A_∞-spaces, classifying spaces, structures on classifying spaces
(3) Talk 2: Adjunctions, (Σ^n, Ω^n), monads, and Beck's monadicity theorem
(4) Talk 3: Operads, monads, and their algebras; little n-cubes
(5) (Evening) Talk 4: James construction and the Hilton–Milnor theorem

2. DAY 2: THE RECOGNITION PRINCIPLE; MULTIPLICATIVE STRUCTURES

(1) Talk 5: E_n-spaces, E_∞-spaces and the recognition principle
(2) Talk 6: The approximation theorem - history and outline of the proof
(3) Talk 7: Operad pairs; examples; the Steiner and linear isometries operads
(4) Talk 8: Monad pairs, E_∞-ring spaces and E_∞ ring spectra
(5) (Evening) Talk 9: $H_*(CX)$ and $H_*(\Omega^n\Sigma^n X)$ as functors of $H_*(X)$

3. DAY 3: CATEGORICAL MULTIPLICATIVE STRUCTURE

(1) Talk 10: Symmetric monoidal and bimonoidal categories, permutative and bipermutative categories, endomorphism operad pairs, and strictification
(2) Talk 11: From symmetric bimonoidal categories to E_∞-ring spectra
(3) Talk 12: The Barratt–Priddy–Quillen theorem and algebraic K-theory
(4) Talk 13: Overview of equivariant generalizations
(5) (Evening) Talk 14: The Goerss-Hopkins recognition of E_∞ ring spectra

4. DAY 4: EQUIVARIANT SPACES

(1) Talk 15: G-spaces, G-CW complexes, G-Postnikov towers, fixed point and orbit adjunctions, homotopy groups and the Whitehead theorem
(2) Talk 16: Orbit categories and the equivalence of homotopy categories, coefficient systems, Bredon cohomology of G-spaces and axioms

5. DAY 5: EQUIVARIANT SPECTRA

(1) Talk 17: Equivariant stable homotopy theory, G-prespectra, G-spectra, and the $(\Sigma^\infty, \Omega^\infty)$ adjunction
(2) Talk 18: Mackey functors and $RO(G)$-graded cohomology theory
(3) Talk 19: The additive equivariant recognition principle for G-categories
(4) Talk 20: The multiplicative recognition principle for G-categories; the equivariant Barratt–Priddy–Quillen theorem and algebraic K-theory
(5) (Evening) Talk 21: The Atiyah-Segal completion theorem, the Segal conjecture, and equivariant cobordism; the evenness conjecture.

6. DAY 6: ORBITAL PRESHEAVES AND QUESTIONS

(1) Talk 22: The equivariant approximation theorem
(2) Talk 23: The general theory of composite adjunctions
(3) Talk 24: The recognition principle for orbital presheaves; examples: Eilenberg–Maclane G-spectra, unit G-spectra, and Picard groups
(4) Ending: questions and speculations - homological and motivic applications of the general theory? equivariant and motivic chromatic theory?