# RSVP + Traffic Engineering (TE)

## Agenda

– Test #1: **Fri Feb 7**; everything to-date including labs!
– Save the date: **Wed Mar 4 – Field trip to Nokia**
  – arrive on location by 9am; return to Algonquin by noon
– Some self-study lab prep will be needed for Lab 6
– Continue RSVP-Traffic Engineering in Module 5:
  – including CSPF: what is it and how does it work?  (Mod 5.46-50)
– (Time permitting) RSVP – Mod 4
  – Four optimizations for managing RSVP sessions:
    Hello Protocol, Refresh randomization, Msg-ID + Summary Refresh, ACK

## Assignments and Lab work

– Continue studying for test #1:
  – re-read: Modules 1-3, 4-5 (partial); also NRS-II book: Chapters 12, 13
    Hey!  Is this starting to make more sense now?!!
– Lab 5 post-lab: due 11:59pm on your lab section's due date
– Lab 6: the LDP-over-RSVP solution

## RSVP Path Selection

Seven ways RSVP path selection can be made:  (NRS-II refs in brackets)

**1.** simply follow the IGP (default)
**2.** TE metrics - admin assigned "cost" - supercedes IGP; in cspf... spec  (14.7)

**3.** bandwidth reservation (several flavours) in the prim or sec spec  (15.2)

**4.** hops specified as "loose" or "strict" in the path specification  (13.4)
**5.** hop limit specified using the `hop-limit` keyword in the LSP  (14.7)

**6.** admin groups (link colouring; lab 5.1) in the primary... specification  (14.7)
**7.** Shared Risk Link Group (SRLG) – for mutually exclusive prim/sec  (16.2)

For lab:  **Make** a tidy chart showing keywords & where each of these criteria are applied in the LSP configuration!  Organize it however you will remember it best.

Configured attributes for these items are:
**1.** carried in type 10 Opaque LSA (or equivalent in ISIS),
**2.** stored in **TED**, and
**3.** used by **CSPF** for generating the **ERO**