NANOGrav Fall Meeting Program
McGill University, 19-21 Oct. 2015

Black = Misc. talks and demos.
Blue = plenary discussion.
Maroon = break-out session.

Student preparation:
Ryan Lynch will coordinate with the SOC a “pre-session” on webex the week before for undergrads/new grad students to prepare them for relevant science and concepts for the meeting. This is still in the works; details to follow.

DAY 1

Session 0:
08:45 - 09:00 **Welcome & Logistics**

Session 1:
09:00 - 10:30 **Rapid-fire Working group updates**
GW Astrophysics - *Mingarelli or McWilliams (?)*
Cyber Infrastructure - *Rob Ferdman*
Detection - *Justin Ellis*
Education & Outreach - *Ryan Lynch*
IMM - *Dan Stinebring*
Noise budget - *Jim Cordes*
Searching - *Joe Swiggum*
Timing - *David Nice*

Session 2:
10:45 - 12:15 **Break-out session #1**
Timing: “”
Education&Outreach: “*SPOT talks and misc. outreach*”
Detection+Astrophysics: “*Strategies to incorporate/recover galaxy and black-hole properties (+ misc. discussion)*”

LUNCH
12:15 - 14:00

Session 3:
14:00 - 15:30 **Misc. Science Talks** (10min per)
Megan Jones, “*The 9yr Dataset: Measurement and Interpretation of DM Variations*"
Michael Lam, “*Seeking the cause of DM variations*”
Joe Swiggum, “*Flux density distributions of NANOGrav pulsars*”

DISCUSSION: The scientific future of GWBs (60min)
Talks and subsequent discussion of a turn-over in the GWB spectrum, and how this might impact NANOGrav’s future techniques and science.
Speakers followed by discussion (~10 minute talks + one question):
Chiara Mingarelli, “*9-year GWB limit synopsis in brief*”
Sean McW, “*Low-frequency turnovers: why worry?*”
Steve Taylor, “*Revisiting scaling laws and time-to-detection projections*”

Session 4:
15:45 - 16:45 **Diversity and Harassment scenarios**

DAY 2

Session 1:

09:00 - 10:30 **Misc. Science Talks** (10min per except where noted)
Elinore Roebber (15min), "*Cosmic variance in the stochastic GWB*"
Dusty Madison, "*Applying the A+A× methods to PPTA data*"
Justin Ellis, "Trans-dimensional signal modeling in PTA data"
Laura Sampson, "*Investigating GW detection strategies and confidence*"
Kristina Islo, "*Gravitational Wave memory source populations*"

Demonstrations (~30min)
Lam+Romano et al., "*Metronome demo*" (5-7 mins)
Lam+Chatterjee, "*Quicklook*" (5-7 mins)
Lommen, "*The Bridge web portal*" (5-7 mins)
Ferdman, "*Data/visualization tools*" +brief discussion (9 mins)

Session 2:

10:45 - 12:15 **Break-out session #2**
Interstellar Medium Mitigation: ""
Noise Budget: ""
Astrophysics: "*Eccentric binaries*"

LUNCH
12:15 - 14:00

Session 3:

14:00 - 15:30 **Misc. Science Talks** (10min per)
Emannuel Fonseca, "*Shapiro delay measurements in the 9yr data*"
Cherry Ng, "*Incorporating archival data and new revisions on the Strong Equivalence Principle test*"
Fredrick Jenet: "*The ARCC Program*"
Froney Crawford: "*ARCC at F&M*"

DISCUSSION: Noise budget (50min)
TBD; Nice, Stinebring, Cordes to organize.

Session 4:

15:45 - 17:00 **DISCUSSION: Current and Next data release** (45min)
TBD; Ransom to organize.
"Free work time"/Ad hoc break-out session (30min)

DAY 3

Session 1:

09:00 - 10:30 **Break-out session #3?**

Detection+Timing: "*Using wide-band timing in GW analysis*"
Cyber Infrastructure: ""

Session 2:

10:45 - 12:30 **Misc. Science Talks** (7-10min per)

Michele Vallisneri, "*Prospects/issues in scaling searches to IPTA datasets*"
Sarah Henderson, "*An Analysis of Mode Switching in PSR J0332+5434*"
Caitlin Rose, "*UHE Cosmic Rays and the Search for Their Origin*"
Luo Jing, "*PINT(PINT is not tempo)*"
Shriharsh Tendulkar, "*CHIME Update*"

DISCUSSION: Funding & Telescopes (25-30 minutes)
TBD; Madison to organize.

Summary talk from someone(s) senior

THE END.