

NATS Science-Informed Pedagogy Institute Schedule

This schedule is provided to institute registrants for planning purposes. The "Detailed Daily Schedule" for "Content Days" Monday 6/26 - Friday 6/30 is subject to slight alterations.

I. PERSONNEL, LOCATION AND DATES

Personnel:

- **Featured Clinicians:** Lynn Holding and John Nix
- **Special Topics Clinician:** Amelia Rollings Bigler
- **NATS Executive Director and Special Topics Clinician:** Allen Henderson
- **On-Site Coordinator:** Cindy Dewey

Location: Utah State University, Logan UT; [Campus Map](#)

Dates: Sunday, June 25 - Saturday, July 1, 2023

II . MACRO SCHEDULE

Sunday June 25: Arrival Day

- 2:00 - 5:00 pm Check-in
- 5:00 - 6:30 pm: Official Greeting, Program & Opening of the Institute
- 6:30 Social Mixer
- 7:00 Group Dinner (pay on your own)

Monday June 26 – Friday June 30: *Content Days* as follows:

- **9 am – noon:** Content Lectures: The Five Systems of the Voice
- **Noon – 2 pm:** Lunch break
- **2:00 pm - 4:30 pm:** Afternoon Programming
- **4:30 – 7:30 pm** Free time/Dinner time on your own
- **7:30 – 9:30 pm** Evening Programming: masterclasses and special topics

Friday June 30: Last Day

- Daily schedule as normal
- 7:00 - 9:30 pm Special Event:
 - Catered dinner for all registrants (courtesy of NATS), Nora Eccles Harrison Museum of Art, Chase Fine Arts Center, Utah State University
 - Presentations: NATS Science-Informed Pedagogy Institute Certificates of Completion

Saturday July 1: departure day

- 9 am - 11:00 am: Plenary Session: Final overview, questions and comments
- 11:00 am: End of the NATS Science-Informed Pedagogy Institute

III. DETAILED SCHEDULE/ Arrival Day

Sunday June 25: Arrival Day, Utah State University, Logan UT

[Campus Map](#)

Institute Check-In: 2 pm-4:50 pm, Chase Fine Arts Center, Lobby adjacent to FAV 262

- FAV = Fine Arts Visual; FAV rooms are to the NW of the main entrance of the Chase Fine Arts Center.
- The location of the Opening Session is FAV 262

Housing Check-In: 2 pm - 4:30 pm

Participants who opted to stay in on-campus housing will be housed in the Living Learning Community (LLC), located at 600 North 800 East, Logan, UT 84321. Check-In for housing is in LLC Bldg A. LLC access is either from Aggie Terrace (by car) or by walking.

Arriving by Car

Participants arriving by car should park in the Aggie Parking Terrace, 600 North 700 East Logan, UT 84321

- Entrance to Aggie Terrace is from 600 East at the bottom of Old Main Hill; LLC sits at the top of the hill
- From the vantage point of the LLC, Aggie Terrace is below ground
- After parking, take the elevator up to the top floor (4)
- Check-In for housing is in LLC Bldg A

Arriving by Walking

Participants arriving by the Salt Lake Express shuttle from SLC airport will be dropped off just north and east of Taggart Student Center; LLC is located just south and west of Taggart Student Center. Check-In for housing is in LLC Bldg A.

Official Opening of the NATS Science-Informed Voice Pedagogy Institute

5:00 - 6:30 pm Chase Fine Arts Center, FAV 262

I. Introductions and Scope of the Institute

II. Lecture: What is Art, What Is Science, and What is Science-Informed Pedagogy? Lynn Holding and John Nix

III. Goals of the Institute: Expectations and Outcomes; Allen Henderson

IV: Announcements: Cindy Dewey

V. Thoughts for the Good of the Whole

6:30 Social Mixer

7:00 Group Dinner: We will eat together at a nearby restaurant; pay on your own.

**IV. DETAILED DAILY SCHEDULE FOR CONTENT DAYS:
Monday 6/26 - Friday 6/30**

Note: Unless otherwise noted on this schedule, on most days we will all meet as a "Group of the Whole" (i.e. all registrants and clinicians together, in one location) in FAV 262.

Content Day #1: MONDAY June 26: *Skeletal Alignment and Respiration*

9 am – noon:

- **Sing Start!** *Group Sing*
- **Lecture:** John Nix, "Skeletal structure and optimal function." Melds structure (skeletal anatomy) with a discussion of Alexander Technique and Body Mapping, interspersed with group mapping exercises; focus is on how optimal alignment enables optimal, healthy function in all the other physical voice systems: *respiration, phonation, resonance, articulation*.

Noon – 2 pm Lunch: on your own

2:00 pm - 4:30 pm:

- **Lecture:** Lynn Holding: "Four Breathing Techniques for Singing." Based on Richard Miller's "National Schools," this lecture explores the concept that there is no one correct breathing technique for singing; rather, choices should be made according to desired timbral outcome.
- **Group Experience:** Nix, "Pedagogical Twister I!" In this game, participants act out the parts of the skeletal and respiratory systems, learning valuable teaching tools for the classroom.

4:30 – 7:30 pm Free time/Dinner on your own

7:30 – 9:30 pm

- **Lecture:** Amelia Rollings Bigler, "Head Over Heels: A Summary of the Effects and Functional Implications of Heel Height on Singer Head Position and Jaw Opening"
- **Group Experience:** Rollings Bigler, "Heads Up!" Using pedagogical alignment and respiration concepts to explore different vocal styles with students. We will play with these teaching tools as a group by singing a 16-bar cut in multiple styles including musical theatre "legit," belt, and Western-classical.

Content Day #2: TUESDAY June 27: *Phonation and Introduction to Vocal Tract Acoustics*

9 am – noon:

- **Sing Start!** *Group Sing*
- **Lecture:** John Nix, "Phonation." A review of laryngeal anatomy and physiology. Emphasis will be placed on tangible ways to impart this knowledge through activities to college undergraduates.
- **Group Experience:** Nix, "Pedagogical Twister II!" Similar to the skeletal/respiration twister from the previous day, registrants will act out roles of various laryngeal structures, learning valuable teaching tools for the classroom.

Noon – 2 pm Lunch: on your own

2:00 pm - 4:30 pm:

- **Lecture:** John Nix, "Introduction to Vocal Tract Acoustics."
- **Topics Include:**

- o John Nix, "SOVTs: Closing Your Mouth to Open Your Sound"
- o John Nix, "Vibrato: Whole lotta shakin' going on"
- o Amelia Rollings Bigler, "Yodel-Ay-Hee-Hoo: Using Glottal Fry and Register Switching to Facilitate CCM Phonation and Registration"

4:30 – 7:30 pm Free time/Dinner on your own

7:30 – 9:30 pm

- **Lecture:** Allen Henderson, "Community Building." Explores the fundamental question as a pedagogy teacher: How might I interact with my colleagues, and make science-informed pedagogy welcoming and not exclusive?
- **Topics include:**
 - o Fostering willingness to allow lesson observations
 - o Building communities of voice pedagogy teachers and voice teachers, students interested in voice pedagogy (SNATS), and among independent voice teachers in your community.

Content Day #3 WEDNESDAY June 28: *Vocal Tract Acoustics, Resonance and Registration*

9 am – noon:

- **Sing Start! Group Sing**
- **Lecture:** John Nix, Vocal Tract Acoustics: "Resonance: Where You Feel it Ain't Resonance." Harmonics, Resonances, Formants, Vocal Tract Inertance, and their relevance in exercise design, selecting repertoire, and troubleshooting problematic passages in repertoire work.
- **Topics Include:**
 - o Registration
 - o Voice Classification

Noon – 2 pm Lunch: on your own

2:00 pm - 4:30 pm

- **Lecture:** Lynn Holding, "Formant Tuning for the Reasonably Intelligent yet Nevertheless Confused"
- **Topics Include:**
 - o How to Understand Vocal Tract Acoustics: A Cognitive Perspective
 - o How to Teach Vocal Tract Acoustics in the Classroom
 - o How to Use Formant Tuning in the Studio

4:30 – 7:30 pm Free time/Dinner on your own

7:30 – 9:30 pm

- **Group Experience:** With registrants as volunteer singing students, each clinician (*Holding, Nix, Henderson and Rollings Bigler*) will teach a 30 minute demonstration singing lesson oriented to

the application of Day #3 topics: vocal tract acoustics, resonance, voice registration, using formant tuning.

Content Day #4 THURSDAY June 29: *Articulation*

9 am – noon

- **Sing Start!** *Group Sing*
- **Lecture:** Lynn Holding, "Articulation: A Science-Informed Approach to the Mechanics of Articulation"
- **Topics Include:**
 - The Tongue
 - Focus on movement rather than hearing
 - The Power of Certain Consonants

Noon – 2 pm Lunch: on your own

2:00 pm - 4:30 pm

- **2 - 3 pm Lecture:** Allen Henderson, "Lyric Diction"
- *3 - 3:15 pm break*
- **3:15 - 4:15 pm Lecture:** Amelia Rollings Bigler: "In The Style Of You: Helping CCM Students Develop Functional Listening Skills and Authenticity through Style Mapping"
- **4:15 - 4:30** Questions and Discussion

7:30 – 9:30 pm Evening Programming

- **Group Experience: Observed and Mentored Classroom Teaching**
 - Volunteer Registrants will teach Science-Informed concepts to a mock pedagogy class and receive both mentor and group feedback.

Content Day #5 FRIDAY June 30: *Cognition*

9 am – noon:

- **Sing Start!** *Group Sing*
- **Lecture:** Lynn Holding, Cognition; "The Musician's Mind: Teaching, Learning and Performance in the Age of Brain Science"
- **Topics Include:**
 - Cognitive Science, The Third Pillar of Voice Science
 - Motor Learning and Voice Training
 - Attentional Focus Theory, implications for Voice Training
 - Deliberate Practice

Noon – 2 pm Lunch: on your own

- Registrants invited to log discussion topics and/or questions onto the *Sci-PI Shared Drive* for tomorrow's Plenary "Wrap-Up" Session; deadline 10:30 pm tonight.

2:00 pm - 4:30 pm

- **Group Experience:** Observed and Mentored Studio Teaching
 - Volunteer Registrants will teach Science-Informed concepts to singers in a private lesson setting and receive both mentor and group feedback.

4:30 – *7:00 pm Free time; *note *special time*

- Registrants invited to log discussion topics and/or questions onto the *Sci-PI Shared Drive* for tomorrow's Plenary "Wrap-Up" Session; deadline 10:30 pm tonight.

***7:00 – 9:30 pm**

- **Special Event: Dinner and Final Program**
 - **Dinner:** Catered dinner for all registrants (courtesy of NATS), Nora Eccles Harrison Museum of Art, Chase Fine Arts Center, Utah State University
 - **Program:** Brief Presentations by all Registrants: What I Learned at Summer Camp 😊
 - **Presentations:** NATS Science-Informed Pedagogy Institute Certificates of Completion
- **10:30 pm:** Deadline to submit discussion topics and/or questions onto the *Sci-PI Shared Drive* for tomorrow's Plenary "Wrap-Up" Session

Saturday July 1: Last Day/Departure Day

- **9 am - 11:00 am** Plenary Session
 - Discussion re: submitted questions and comments on the *Sci-PI Shared Drive*
- **11:00 am:** End of the NATS Science-Informed Pedagogy Institute