

Original link (Requires Credentials): <https://ictwiki.alma.cl/twiki/bin/view/Main/AlmaSwWorkshop2013>

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Overview

This ALMA Software Workshop is being held for Software Engineers from various institutions, and is based on previous experiences since 2004 (see [ACS Workshop 2010](#)). It consists of a technical hands-on course using the ACS (ALMA Common Software) framework, alternated with short technical talks and discussions. This site contains all relevant information for the course organizers and participants.

Dates: September 9th to 11th, 2013.

Location: NRAO Array Operations Center, Socorro NM (<http://www.aoc.nrao.edu/>)
Conference Room #220

Global Planning and Agenda

Day 1 (Monday)

Time	Activity	Guiding instructor
9:30-9:55	Welcome. Workshop introduction. Who is who.	all
10:00-10:55	ALMA Software Big Picture	Rafael Hiriart
11:00-11:10	<i>Coffee break</i>	
11:15-11:40	General overview of ACS	Jorge Avarias
11:45-12:25	A Trip through ACS Functionality	Jorge Avarias
12:30-13:25	<i>Lunch break (NM Tech Canteen)</i>	
13:30-13:55	Course welcome: Project definition and group assignments .	Matias Mora
14:00-14:25	Group exercises: Basic ACS environment and functionalities.	all
14:30-14:40	<i>Coffee break</i>	
14:45-15:10	Project life-cycle and software engineering basics	Matias Mora
15:15-16:10	Group exercises: modroot and inroot creation / compiling and installing project / archiving module skeleton	all
16:15-16:25	Distributed software deployments	Matias Mora
16:30-17:25	Group exercises: Inspecting example components and CDB / Set up test CDB with a simulated component	all
17:30	<i>End of day</i>	

Day 2 (Tuesday)

Time	Activity	Guiding instructor
9:30-10:25	Component IDL simulation	Rafael Hiriart
10:30-10:55	Test driven development and automatic Unit testing	Jorge Avarias
11:00-11:10	<i>Coffee break</i>	
11:15-12:25	Group exercises: Tests development and setup (against simulated components)	all
12:30-13:25	<i>Lunch break (NM Tech Canteen)</i>	
13:30-14:25	Component implementation guidelines (language specific)	Jorge Avarias / Matias Mora
14:30-15:25	Group exercises: Empty component implementation / Pass test case with real component	all

15:30-15:40	<i>Coffee break</i>	
15:45-16:40	BACI Properties and DevIOs	Rafael Hiriart
16:45-17:25	Group exercises: Start component functionality development	all
17:30	<i>End of day</i>	

Day 3 (Wednesday)

Time	Activity	Guiding instructor
9:30-9:55	Developing and debugging ALMA Software	Rafael Hiriart
10:00-10:55	Group exercises: Component functionality development	all
11:00-11:10	<i>Coffee break</i>	
11:15-11:40	Logging and Error System	Jorge Avarias
11:45-12:25	Group exercises: Component functionality development / Adding logging and error handling	all
12:30-13:25	<i>Lunch break (NM Tech Canteen)</i>	
13:30-14:55	Group exercises: Finishing the component development / comply tests cases / start integration	all
15:00-15:10	<i>Coffee break</i>	
15:15-16:55	Group exercises: Project integration and testing	all
17:00-17:25	Round table: Final discussion and conclusions	all
17:30	<i>End of day</i>	

Hands-on course

- [Hands-on exercise](#)

Participants

Course instructors:

Name	Institution	Project
RafaelHiriart	NRAO (Socorro)	ALMA
JorgeAvarias	NRAO (Socorro)	ALMA
MatiasMora	NRAO (C'ville)	ALMA / ALMA Phasing Project

Course attendees:

Name	Institute	Project
RachelRosen	NRAO (C'ville)	ALMA
PatrickBrandt	NRAO (Socorro)	ALMA
GeoffreyCrew	MIT Haystack (Westford)	ALMA Phasing Project
HelgeRottmann	MPIfR (Bonn)	ALMA Phasing Project