

Start	End	Duration	DAY 1
8:30	8:45	0:15	REGISTRATION / CHECK-IN
8:45	9:00	0:15	Welcome speeches (Laurent BARILLE)
9:00	10:25	1:25	<p>9h00-9h35 (35 min) Taxonomy of benthic &amp; ichthyotoxic dinoflagellates (comprehensive) Nicolas CHOMERAT</p> <p>9h35-10h10 (35 min) Culture of benthic &amp; pelagic dinoflagellates (focus: bioreactors) Véronique SECHET</p> <p>10h10-10h25 (15 min) Recently discovered benthic species (focus Gambierdiscus) Santiago FRAGA</p>
10:25	10:45	0:20	COFFEE BREAK
10:45	13:00	2:15	<p>10h45-11h (15 min) Recently discovered benthic species (focus Gambierdiscus) Santiago FRAGA</p> <p>11h00-11h45 (45 min) Recent sampling techniques for benthic dinoflagellates Patricia TESTER</p> <p>11h45-12h15 (30 min) Chemistry of algal toxins, passive sampling techniques and transfer to fish and shellfish Philipp HESS</p> <p>12h15-13h Questions to the speakers</p>
13:00	14:00	1:00	LUNCH
14:00	16:15	2:15	<p>14h-14h45 (45 min) tour of the Phycotoxin Lab at Ifremer (focus algal culture techniques) Véronique SECHET</p> <p>14h45-15h30 (45 min) Microscopic analysis of benthic &amp; ichthyotoxic genera (focus Ostreopsis, Gambierdiscus, Prorocentrum, Kareniaceae) Nicolas CHOMERAT / Santiago FRAGA</p> <p>15h30-16h15 (45 min) demonstration of passive sampling for benthic microalgae (from lab cultures) Patricia TESTER</p>
16:15	16:45	0:30	TEA BREAK
16:45	18:30	1:45	<p>16h45-17h30 (45 min) Lab visit with demonstration of passive sampling and uptake studies Philipp HESS</p> <p>17h30-18h30 Discussion session</p>
18:30	20:00	1:30	ICE BREAKER BUFFET
			FREE EVENING

Start	End	Duration	DAY 2
9:00	10:30	1:30	<p>9h00- 9h45 (45 min) Microenvironmental ecology of biofilms. Michael KÜHL</p> <p>10h00 - 10h30 (30 min) Sediment microalgae biodiversity. Lourenço RIBEIRO</p>
10:40	11:00	0:20	COFFEE BREAK
11:00	12:50	1:50	<p>11h00 - 11h30 (30 min) Photo-adaptation and photo-regulation of benthic diatoms. Bruno JESUS</p> <p>11h40 - 12h10 (30 min) Chemical fingerprinting as a tool to study microalgae biofilms. Cedric HUBAS</p> <p>12h20 - 12h50 (30 min) Remote sensing of microphytobenthic biofilms. Vona MELEDER</p> <p>Questions to the speakers</p>
13:00	14:00	1:00	LUNCH
14:00	16:00	2:00	<p>Workshops (30 min each, groups of 5 students)</p> <p>Measuring primary productivity and biomass in intertidal sediments Bruno JESUS</p> <p>Measuring pigment diversity by HPLC Vona MELEDER</p> <p>Cleaning and preparation of permanent slides of benthic diatoms Lourenço RIBEIRO</p> <p>Measuring sediment adhesion by MagPI Cedric HUBAS</p>
16:00	16:30	0:30	TEA BREAK
16:30	18:30	2:00	Visit to Nantes Culture Collection (NCC) and Q&A session (MMS meeting room)
18:30			end of Day 2
			FREE EVENING for students
20:00			Dinner with guests speakers Restaurant Le bouchon

Start	End	Duration	DAY 3
8:30	10:30	2:00	<p>8h30- 9h30 (60 min) Shellfish production from hatchery to putting the product on the market André MALLET</p> <p>10h00 - 10h30 (30 min) Potentiality of mareninme in aquaculture Romain GASTINEAU</p>
10:40	11:00	0:20	COFFEE BREAK
11:00	12:45	1:45	<p>11h00 - 11h45 (45 min) Nutritional value of microalgae in aquaculture Philippe SOUDANT</p> <p>12h00 - 12h45 (45 min) Shellfish ecosystem functioning Sébastien LEFEBVRE</p> <p>Questions to the speakers</p>
13:00	14:00	1:00	LUNCH
14:00	16:00	2:00	<p>Workshops (30 min each, groups of 5 students)</p> <p>Measuring SFG using flow-through system Laurent BARILLE</p> <p>Histology Priscilla DECOTTIGNIES</p> <p>Isolate and grow microalgae Vona MELEDER</p> <p>Using particle counter Bruno COGNIE</p>
16:00	16:30	0:30	TEA BREAK
18:30			end of Day 3
20:00			Dinner with all participants La Cantine du Voyage

Start	End	Duration	DAY 4
8:30			Bus at Hotel Duquesne
09:00	10:15	01:15	Filed Trip to Bourgneuf Bay
10:15	11:00	0:45	Visit IFREMER Station of Bouin
11:15	11:45	0:30	Visit port chinois-typical oyster harbour
12:00	13:30	1:30	Pique nique with an oyster producer
14:00	17:00	3:00	Practical-Field work
17:00	17:30	0:30	Celebration end summer school
17:30	18:30	1:00	Back to Hotels