TODAY’S TOPICS

COAST in a nutshell

Faculty and student support

Unique successes

Where we need your help!

*Slides and materials will be available electronically after today’s meeting

Image courtesy of Abbey Dias, Sonoma State
WHAT IS COAST?

CSU’s systemwide affinity group for ocean and coastal research, education and workforce development.
WHAT IS COAST?

Network of hundreds of faculty members and their students actively working to address critical ocean and coastal issues.
WHAT IS COAST?

Community where we advance our knowledge of ocean and coastal systems AND develop current and future ocean and coastal scientists, scholars, and leaders.
WHERE IS COAST?

The open and coastal ocean
WHERE IS COAST?

Coastal zones (bays, estuaries, beaches)
Coastal watersheds: the organism, material or process being studied in the watershed must have a clear and direct impact on the downstream marine environment.
WHERE IS COAST?

Not limited to California!
FUNDING FOR COAST

$500,000 from Chancellor’s Office

$234,000 from campuses
  - $11,000 from coastal
  - $8,250 from inland

$72,000 from internship hosts

Funding from one-time state appropriations
Currently pending approval from Chancellor’s Office

Four overarching goals for the next five years:

1. Create a more inclusive and diverse marine science research community for CSU faculty members, students, and beyond.

2. Increase opportunities and capacity for a diversity of faculty members to obtain extramural funding and conduct research.

3. Enable a diversity of students to successfully develop as researchers and professionals.

4. Elevate COAST member expertise as a primary resource for informed decision-making in government, industry and local communities.
SUPPORT FOR FACULTY-LED RESEARCH, SCHOLARSHIP AND INNOVATION

Grant Development Program
Rapid Response Funding
Seminar Speaker Series
Short Course, Workshop and Symposium Funding
State Science Information Needs Program
Match for CA Sea Grant Opportunities
  - New Faculty Special Focus Awards 2021
  - Pathways to Inclusive Research Training 2023
SUPPORT FOR STUDENT RESEARCH, TRAINING AND PROFESSIONAL DEVELOPMENT

Dr. Kenneth H. Coale Graduate Scholar Awards

Field Experiences Support Program

Summer Internships

Student Travel Awards

Undergraduate Student Research Support Program

Match for CA Sea Graduate Research Fellowships 2022 and 2024
LENS OF EQUITY, DIVERSITY AND INCLUSION

Example language:

Students who are members of a group that is historically excluded in marine and coastal science, including students who are Hispanic, Latina/o, Black or African American, Asian, Pacific Islander, American Indian or Alaska Native; female; LGBTQIA+; first-generation college students; economically disadvantaged; veterans; and students with disabilities are strongly encouraged to apply. Applicants of any race, ethnicity, color, religion, gender, gender identity or expression, sexual orientation, national origin, age, dis/ability or veteran status are welcome.

Shaun Teeter, Maritime
Jayda Parsons, Bakersfield
Barbara Sanchez, Northridge
Nicholas Hernandez, San Diego
STATE SCIENCE INFORMATION NEEDS PROGRAM (SSINP)

**COAST PROGRAMMATIC GOAL:** communicate the best available science to stakeholders (public, decision-makers, end-users) to support evidence-based decision-making, policy development and resource management

$3M one-time state appropriation in 2019

**FOCUS:** directly and exclusively supports the state of California’s highest priority ocean and coastal related needs for scientific information.

**SSINP GOAL:** to provide the science needed for informed policy development and evidence-based decision making in a timely and actionable manner.

RFPs developed iteratively with state agencies to ensure stakeholder buy-in
2. Ecotoxicology

2.1 Determine the role of microplastics and microfibers as transfer mechanisms for contaminants to marine, estuarine and anadromous organisms under environmentally-realistic conditions (e.g., UV exposure, oxidation, temperature regimes, bacterial degradation) and at environmentally relevant exposure concentrations. Contaminant transport mechanisms may focus on, but are not limited to, ingestion, inhalation, trophic transfer, placental transfer, gill uptake, gut translocation into tissues and organs, and dermal absorption. Categories of contaminants may include, but are not limited to, flame retardants, plastic-associated chemicals, chemicals in pharmaceuticals and personal care products and unknown chemicals. Approaches that include in vivo testing and characterization of sub-organismal and organismal level impacts (e.g. protein synthesis, metabolism, growth and reproduction) are strongly desired.
STATE SCIENCE INFORMATION NEEDS PROGRAM (SSINP)

Eight large projects totaling $2.75M funded to date

- Microplastics and microfibers
  - $800K awarded; San Diego and San Marcos

- Sea-level rise
  - $1.1M awarded; Channel Islands, Fullerton, Long Beach, Northridge, San Diego, San Francisco
  - CA Sea Grant provided $300K in co-funding

- Compensatory mitigation and associated restoration
  - $860K awarded; Channel Islands, Northridge, Pomona
  - CA Ocean Protection Council provided $100K in co-funding
$5M one-time state appropriation in 2022

- $1.65M to CA Collaborative Fisheries Research Program
  - Humboldt, Monterey Bay, San Jose, San Luis Obispo
- $3.35M to COAST

Plan to offer two more $1M RFPs over next 18 mos

- Need to hire new state policy and communications strategist
- CASG expressed interest in providing co-funding again
LEVERAGING MATCH FOR CA SEA GRANT

Faculty opportunities
- **New Faculty Special Focus Awards 2021**
  - Awards up to $60K requiring 50% non-federal match ($30K)
  - 5 awards
    - ~$150,000 from COAST, ~$300,000 from CASG (1:2)
- **Pathways to Inclusive Research Training 2023**
  - Awards up to $75K requiring 25% non-federal match ($18,750)
  - 3 awards
    - $56,250 from COAST, $225,000 from CASG (1:4)

Student opportunities
- **Graduate Research Awards 2022**
  - Awards up to $80K requiring 25% non federal match ($20K)
  - 2 awards
    - $25,000 from COAST, $80,000 from CASG (1:5.6)
GRANT AND CONTRACT ACTIVITY

Contact campus sponsored programs offices annually
  • Provide list of PIs associate with COAST
  • Request expenditure data

Filter data to remove any internal, non-R&D, non-marine or coastal projects

<table>
<thead>
<tr>
<th>2020-21 active awards</th>
<th>Number of awards</th>
<th>Number of individual PIs</th>
<th>Expenditures</th>
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<tbody>
<tr>
<td>External, ocean and coastal, R&amp;D only</td>
<td>319</td>
<td>143</td>
<td>$22,772,874</td>
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CSU 2020-21 externally-funded R&D expenditures: $259,675,000
GRANT DEVELOPMENT PROGRAM

Seed grants up to $25,000 to support development and submission of full proposals for extramural funding

Seeking 10:1 ROI

18-month awards can be used for reassigned time, summer salary, sample collection/analysis costs, student support, travel

<table>
<thead>
<tr>
<th>Month</th>
<th>Event</th>
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<tbody>
<tr>
<td>May 2023</td>
<td>RFP for 2024 awards released</td>
</tr>
<tr>
<td>September 2023</td>
<td>Proposals due</td>
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<tr>
<td>January 2024</td>
<td>Awards announced</td>
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<tr>
<td>May 2024</td>
<td>Awards begin</td>
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<tr>
<td>October 2025</td>
<td>Awards end</td>
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Trouble recovering from COVID?

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount budgeted</th>
<th>Number of proposals received</th>
<th>Number of awards made</th>
<th>Total amount awarded</th>
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<tbody>
<tr>
<td>2017</td>
<td>$155,000</td>
<td>11</td>
<td>9</td>
<td>$156,000</td>
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<tr>
<td>2018</td>
<td>$135,000</td>
<td>17</td>
<td>7</td>
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<tr>
<td>2019</td>
<td>$120,000</td>
<td>23</td>
<td>7</td>
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<td>$150,000</td>
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<tr>
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<td>15</td>
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<td>2022*</td>
<td>$180,000</td>
<td>11</td>
<td>8</td>
<td>$158,000**</td>
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<td>2023</td>
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<td>8</td>
<td>5</td>
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*Awards increase from $20K to $25K
**One award declined, two awards not made; total spent: $99,000
Faculty can’t get funded if they don’t apply

2023: 3 proposals from Monterey Bay, 3 awards

2019: 5 proposals from San Marcos, 2 awards

Can CCROs push this year’s RFP?

• Junior faculty
• Faculty who haven’t had COAST support
• Social sciences

$200,000 to fund 8 awards
THANK YOU!

Krista Kamer

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www.calstate.edu/coast