IUCRC Evaluation Update

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IUCRC Annual Directors’ Meeting, Arlington, VA, January 11-13, 2012
Overview

• Review of Evaluator Responsibilities
• Overview of Changes to the evaluation protocol
• Specific Changes
Reminders about responsibilities

**Required Activities**

1) Attend semi-annual evaluators' meetings (typically in January and June);
2) Attend semi-annual Industrial Advisory Board meetings
3) Prepare an "Evaluator's Report" when a new center is born and provide an annual narrative summary of significant Center developments for submission to NCSU and your Center Director;
4) Complete Semi-Annual Meeting Best Practice Checklist at each IAB meeting and attach to Annual Evaluator's Report for each I/UCRC.
5) Administer "process/outcome" questionnaires to faculty, and Industrial Advisory Board Members annually;
6) Prepare an annual report based on the process/outcome questionnaire data for your Center and submit to your Center Director;
7) Forward process outcome questionnaire data to the evaluation team at NCSU;
8) Provide information and feedback to NSF; and
9) Provide information and feedback to your Center Director.
# Changes in evaluation protocol

<table>
<thead>
<tr>
<th>Change</th>
<th>Format</th>
<th>Finalize</th>
<th>Implement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete Evaluator Report Cover Sheet (Evaluator Report)</td>
<td>Cover sheet</td>
<td>June 2011</td>
<td>Immediate</td>
</tr>
<tr>
<td>Revised Best Practice Checklist (Evaluator Report)</td>
<td>Updated checklist</td>
<td>Summer 2011</td>
<td>Immediate</td>
</tr>
<tr>
<td>Collect quantifiable economic impact data</td>
<td>Interview protocol</td>
<td>June 2012</td>
<td>Fall 2012</td>
</tr>
<tr>
<td>Eliminate collection of exit interviews</td>
<td>NA</td>
<td>NA</td>
<td>Immediate</td>
</tr>
<tr>
<td>Add economic impact questions to P/O questionnaire</td>
<td>Forced-choice questions</td>
<td>June 2012</td>
<td>Fall 2012</td>
</tr>
<tr>
<td>Revise methodology for reporting impact data</td>
<td>Dashboard</td>
<td>June 2012</td>
<td>Fall 2012</td>
</tr>
</tbody>
</table>
Industrial University Cooperative Research Centers

**Coversheet and checklist**

### Evaluators Report Cover Sheet

**Evaluator’s Name:**

**Period Covered by This Report:** [MM/YY - MM/YY]

**Date:**

**Site:**

**Director:**

**Center Director:**

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### Significant personnel changes:

### Membership Activity Table

<table>
<thead>
<tr>
<th>Member Name</th>
<th>Site</th>
<th>Membership Type</th>
<th>Status: New, Left, Continuing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(full, assoc., etc.)</td>
<td></td>
</tr>
</tbody>
</table>

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### Industry-University Cooperative Research Center (IUCRC)

**Semi-annual Meeting Best Practice Checklist**

**Version:** June 10, 2011

These best practices help support long-term industry involvement in IUCRCs. IAB members are more likely to gain benefits for their organizations and renew their membership in centers that follow these practices. Evaluators attach two completed CLs to their annual Evaluators’ Report.

- The Center has 2 face-to-face meetings of the IAB. Industry scientists attend 1 meeting per year.
- The Center primarily dedicates 1 technical review of proposal/program or LIFE feedback per year.
- A Center Update Report that includes:
  - A review of the center’s missions and research paradigm and priorities
  - An annual financial statement at site ($ members fees collected & spent available for projects)
  - A discussion of center-related technology adoption & economic impact
  - An up-to-date listing of publications & presentations (OK if online)
  - A common presentation template is used and adhered to by most presenters (e-deliverable, milestone, schedule, budget & time limits).

### Notes

- Industry members are expected to attend 2 meetings per year.
- LIFE feedback is discussed in 1 meeting per year.
- Center members make site visits to industry.
- Clear procedures (voting/decisions) are used for project continuation/selection.
- Meeting activities include a center “state-of-the-center” discussion by IAB members.
- A discussion of and a decision to the date and location of the next meeting.
Proposed economic impact assessment process

[monitor progress for economic impact]

[typical routine year 1 to 5]

Interview director on impacts

[typical routine year 6 to 15]

Significant Economic impact event?

No

Interview director on emerging developments

Yes

Interview external beneficiaries

Significant Economic impact event?

No

Prepare “Success Story” Case

Yes

Submit for inclusion in Tech-Break Compendium?

Prepare “Economic Impact” Case In Evaluator Report

90 days pre-renewal
Proposed P/O economic impact items

- **Follow-on funding**: value of new or enhanced projects stimulated by center research
- **R&D Cost Savings**: value of accelerated projects or avoided steps
- **R&D Cost Avoidance**: value of projects they would have done internally but did not have to
- **Cost savings**: value of product or process savings by deploying center-derived technology
- **Other**: ???
Dashboard Example

Center for Center Evaluation (CCE)

<table>
<thead>
<tr>
<th>Metric</th>
<th>CCE</th>
<th>IUCRC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inputs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PhD Students</td>
<td>12</td>
<td>16.1</td>
</tr>
<tr>
<td>Faculty</td>
<td>20</td>
<td>14.7</td>
</tr>
<tr>
<td>Members</td>
<td>14</td>
<td>18.1</td>
</tr>
<tr>
<td>Total fees</td>
<td>$750k</td>
<td>$626k</td>
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<tr>
<td>Total funding</td>
<td>$1.72M</td>
<td>1.73M</td>
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<tr>
<td>Mtg attendance</td>
<td>60%</td>
<td>85%</td>
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<tr>
<td><strong>Leveraging</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>to Industry</td>
<td>2.8:1</td>
<td>2.9:1</td>
</tr>
<tr>
<td>to Total funding</td>
<td>4.4:1</td>
<td>4.6:1</td>
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<tr>
<td><strong>Outcomes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td>20</td>
<td>16.1</td>
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<tr>
<td>PhD Grads</td>
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<td>3.5</td>
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<tr>
<td>Patents</td>
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<td>1.2</td>
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<tr>
<td>Presentations</td>
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<td>95</td>
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<tr>
<td>Mbr satisfaction</td>
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<tr>
<td><strong>Economic impacts</strong></td>
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<td></td>
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<tr>
<td>cost avoidance</td>
<td>$100k</td>
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<tr>
<td>cost savings</td>
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<td>$250k</td>
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<tr>
<td>follow-on funding</td>
<td>$1.2M</td>
<td>$2.5M</td>
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</table>

CCE history & assessment
The CCE center is engaged in research on multi-disciplinary R&D collaboration and innovation outcomes. The center launched as a single site CRC in 2004 with 6 members. In 2006 the center integrated two additional university sites and expanded its members to 14. Member churn has been relatively high, in some years losing 25% of its member base. Faculty involvement remains strong, though student participation and graduation rates fall short of program averages. Member satisfaction is in line with program averages, though meeting attendance and follow-on funding has been decreasing since 2007. Data suggest…
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QUESTIONS?