



US Particle Accelerator School

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March 1, 2016

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Berkeley CA 94720

Dear Fernando, Daniele and Chad,

I would like to extend my sincere thanks for designing, developing and teaching the "Electron Injectors for 4th Generation Light Sources" course at our winter 2016 session hosted by the University of Texas. I realize that in addition to time spent at the session, the preparation of your lecture materials takes a considerable effort which is made over and above your regular job duties. Thank you.

Enclosed are your course evaluations. As you can see, the student enjoyed your class. In fact, one student commented "This was the most useful course I have taken at USPAS. Great job by the instructors". It is your dedication that makes the USPAS such a valuable program for the entire accelerator community.

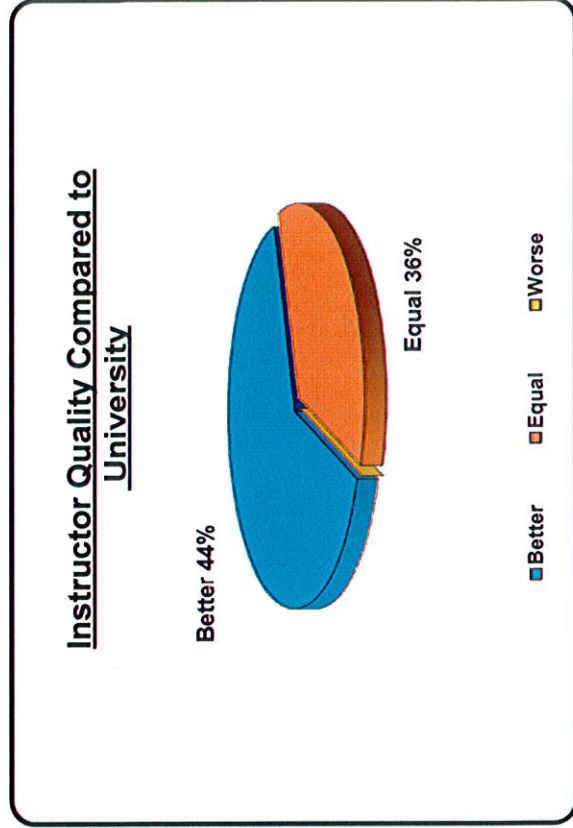
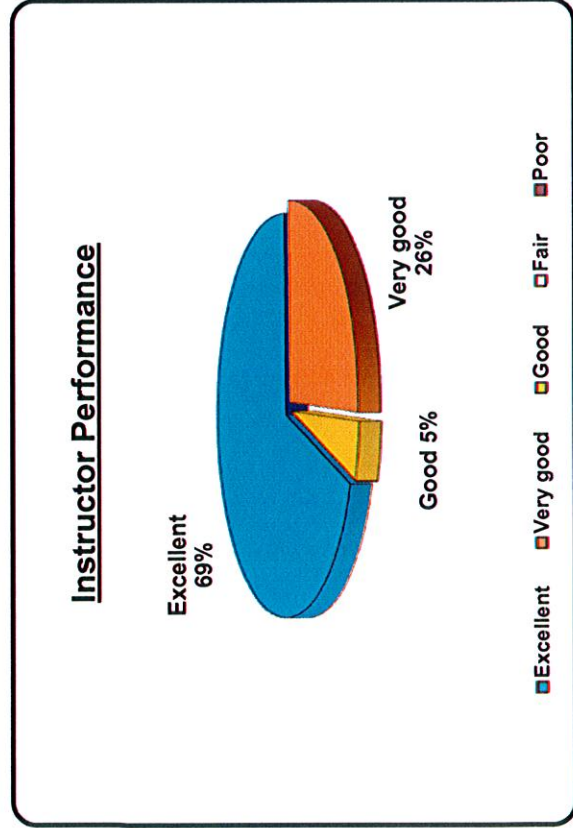
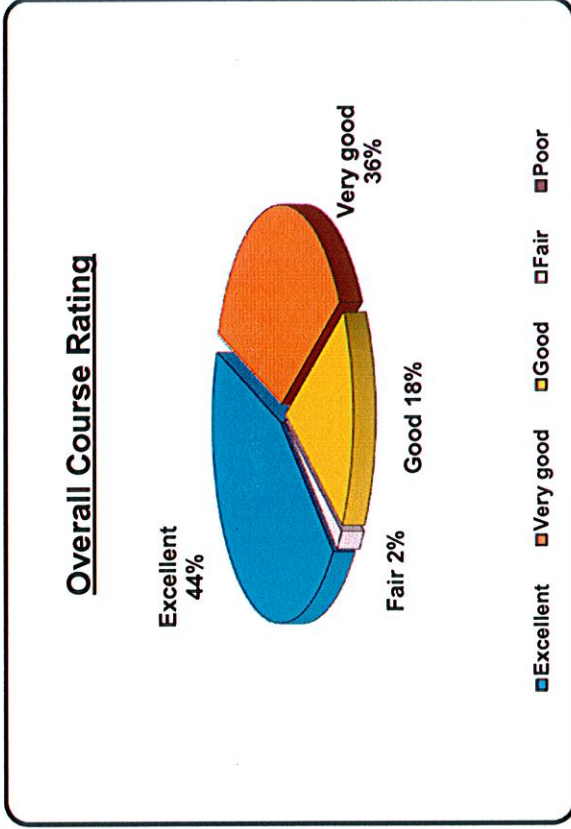
Best wishes,

A handwritten signature in black ink that reads "Bill". The signature is written in a cursive, flowing style.

William A. Barletta
Director

Electron Injectors for 4th Generation Light Sources

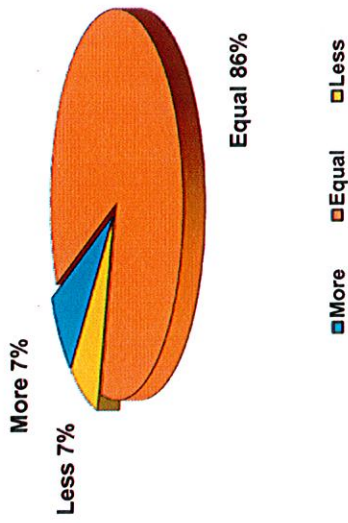
17 students attended, 14 evaluations received



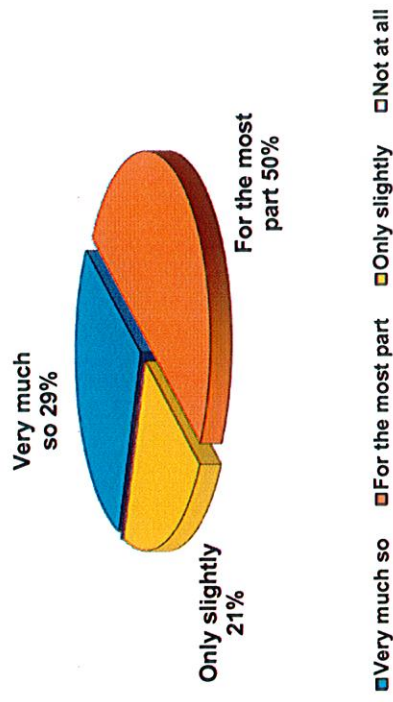
Electron Injectors for 4th Generation Light Sources

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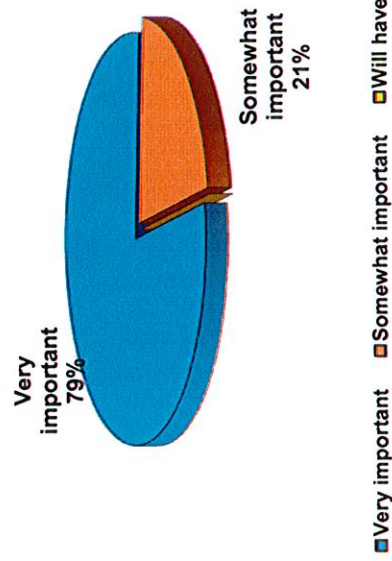
Difficulty Level Compared to University Courses



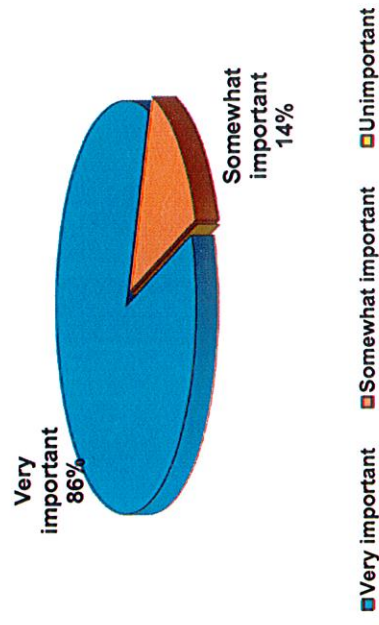
Did Your Background Prepare You?



Value of the Course for Your Current Job/Study Area



Value of the Course for Your Future Career



Course Evaluation – January 2016

Course Name: *Electron Injectors for 4th Generation Light Sources*

1) On the basis of the following characteristics, how do you rate this course?

	<u>Poor</u>	<u>Fair</u>	<u>Good</u>	<u>Very Good</u>	<u>Excellent</u>	<u>N/A</u>
content, emphasis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
student material provided	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
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2) Compare the level of difficulty of this course with other university courses you have taken:

More Difficult _____ Equal Difficulty X Less Difficult _____

3) On the basis of the following characteristics, how do you rate the performance of the instructors for this course?

	<u>Poor</u>	<u>Fair</u>	<u>Good</u>	<u>Very Good</u>	<u>Excellent</u>
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attitude toward students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

4) Compare the quality of instructors for this course with other university instructors:

Better _____ Equal X Worse _____

5) Did your background adequately prepare you for this course?

<u>Not at all</u>	<u>Only Slightly</u>	<u>For the Most Part</u>	<u>Very Much So</u>
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Over →

6) Rate the value of this course for your current job/area of study:

Will have
no Impact

Somewhat
Important

Very
Important

7) Rate the value of this course for your future career:

Unimportant

Somewhat
Important

Very
Important

8) What courses would you like to see us offer in the future?

9) Suggestions or comments on this course or on the USPAS in general:

Due to time constraints on the course, I feel like the starting point for some homework problems could have been more clearly stated.

In general, the time allotted for homework and the final was insufficient.

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7) Rate the value of this course for your future career:

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Somewhat
Important

Very
Important

8) What courses would you like to see us offer in the future?

High-gradient structures
RF generators, Solid-state RF amplifiers
LLRF

9) Suggestions or comments on this course or on the USPAS in general:

Course should be more detailed (2 weeks instead of
1 week,
more detailed practice).

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9) Suggestions or comments on this course or on the USPAS in general:

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Over →

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Will have
no Impact

Somewhat
Important

Very
Important

7) Rate the value of this course for your future career:

Unimportant

Somewhat
Important

Very
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8) What courses would you like to see us offer in the future?

9) Suggestions or comments on this course or on the USPAS in general:

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<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Over →

6) Rate the value of this course for your current job/area of study:

Will have
no Impact

Somewhat
Important

Very
Important

7) Rate the value of this course for your future career:

Unimportant

Somewhat
Important

Very
Important

8) What courses would you like to see us offer in the future?

Cathode physics

9) Suggestions or comments on this course or on the USPAS in general:

Make this a 2-credit course.
There was way too much
material too fast

Course Evaluation – January 2016

Course Name: *Electron Injectors for 4th Generation Light Sources*

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Not at all

 Only Slightly

 For the Most Part

 Very Much So

Over →

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Will have
no Impact

Somewhat
Important

Very
Important

7) Rate the value of this course for your future career:

Unimportant

Somewhat
Important

Very
Important

8) What courses would you like to see us offer in the future?

plasma physics .

induction Accelerator

computational accelerator physics .

9) Suggestions or comments on this course or on the USPAS in general:

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Over →

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Will have
no Impact

Somewhat
Important

Very
Important

7) Rate the value of this course for your future career:

Unimportant

Somewhat
Important

Very
Important

8) What courses would you like to see us offer in the future?

EPICS introduction
Timing systems.

9) Suggestions or comments on this course or on the USPAS in general:

This was the most useful course I have taken at USPAS. Great job by the instructors. Thank you!

Please return this evaluation to the USPAS Office

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<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Over →

6) Rate the value of this course for your current job/area of study:

Will have
no Impact

Somewhat
Important

Very
Important

7) Rate the value of this course for your future career:

Unimportant

Somewhat
Important

Very
Important

8) What courses would you like to see us offer in the future?

9) Suggestions or comments on this course or on the USPAS in general:

Please return this evaluation to the USPAS Office

Course Evaluation – January 2016

Course Name: *Electron Injectors for 4th Generation Light Sources*

1) On the basis of the following characteristics, how do you rate this course?

	<u>Poor</u>	<u>Fair</u>	<u>Good</u>	<u>Very Good</u>	<u>Excellent</u>	<u>N/A</u>
content, emphasis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
student material provided	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
homework problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
computer simulations (if applicable)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
lab equipment (if applicable)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

2) Compare the level of difficulty of this course with other university courses you have taken:

More Difficult _____ Equal Difficulty Less Difficult _____

3) On the basis of the following characteristics, how do you rate the performance of the instructors for this course?

	<u>Poor</u>	<u>Fair</u>	<u>Good</u>	<u>Very Good</u>	<u>Excellent</u>
teaching effectiveness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
classroom performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
attitude toward students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

4) Compare the quality of instructors for this course with other university instructors:

Better Equal _____ Worse _____

5) Did your background adequately prepare you for this course?

<u>Not at all</u>	<u>Only Slightly</u>	<u>For the Most Part</u>	<u>Very Much So</u>
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Over →

6) Rate the value of this course for your current job/area of study:

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7) Rate the value of this course for your future career:

Unimportant

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Very
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9) Suggestions or comments on this course or on the USPAS in general:

lab and simulations are very important to internalize the material.

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Over →

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Over →

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Somewhat
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Very
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Unimportant

Somewhat
Important

Very
Important

8) What courses would you like to see us offer in the future?

9) Suggestions or comments on this course or on the USPAS in general:

USPAS- excellent as always.

Course Evaluation – January 2016

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	<u>Poor</u>	<u>Fair</u>	<u>Good</u>	<u>Very Good</u>	<u>Excellent</u>	<u>N/A</u>
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Course Evaluation – January 2016

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Over →

6) Rate the value of this course for your current job/area of study:

Will have
no Impact

Somewhat
Important

Very
Important

7) Rate the value of this course for your future career:

Unimportant

Somewhat
Important

Very
Important

8) What courses would you like to see us offer in the future?

Radiation damage
THz sources
Optics
Betatrons
Solid-state RF
Pulsed power/modulators
Ultra-compact accelerators
Novel accelerator technologies

9) Suggestions or comments on this course or on the USPAS in general:

More practical work
2x 1-week courses should all be replaced by
2-week courses