Name: Matthew P Meeder
Job Title: Graduate Research Assistant
Institution: Virginia Tech
Title of Work Used: Chemical Bonds Figure
Copyright Holder: Encyclopedia Britannica
Publication Status: Unpublished
Publisher:
Place of Publication:
Publication Year: 2007
Description of Work: This is a figure showing the different types of chemical bonds
Date of Evaluation: July 12, 2016
Date of Intended Use: July 12, 2016

Describe the **Purpose** and Character of Your Intended Use:

Masters Thesis
[+] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"
[+] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.
[+] Use is not-for-profit
[+] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]
[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)
[+] Use is one-time, or is only occasional or spontaneous
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

[+] Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
[+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)
[+] Original work was not created and/or has not been marketed for the stated purpose of the proposed use
[+] Work to be used has been previously PUBLISHED

Fair [ ] Unfair [ ]

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

[+] Only limited and reasonable portions will be used
[+] The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)
[+] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
[+] If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)
[+] The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

Fair [ ] Unfair [ ]

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

[+] The work is NOT currently under commercial exploitation (out of print, no licensing available, etc.)
[+] The copyright holder cannot be identified or cannot be found after a reasonable search, or, once found does not respond (one way or another) to requests for permission to use the work
[+] Use of the work has the potential to create or improve the market for the work
[+] Proper attribution will be given with the intended use

Fair [ ] Unfair [ ]
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

<table>
<thead>
<tr>
<th>Fair</th>
<th></th>
<th></th>
<th></th>
<th>Unfair</th>
</tr>
</thead>
</table>

Based on the information and justification I have provided above, I, Matthew P Meeder, am asserting this use is **FAIR** under Section 107 of the U.S. Copyright Code.

Signature: ____________________________  
Date of Signature: 7/14/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.*
## Name: Matthew P Meeder

### Job Title:
Graduate Research Assistant

### Institution:
Virginia Tech

### Title of Work Used:
Figure of Metallic Bonding

### Copyright Holder:
Encyclopedia Britannica

### Publication Status:
Published

### Publisher:

### Place of Publication:

### Publication Year:
2007

### Description of Work:
This is a figure showing the fluidity of metallic bonds.

### Date of Evaluation:
July 12, 2016

### Date of Intended Use:
July 12, 2016

---

### Describe the Purpose and Character of Your Intended Use:

**Masters Thesis**

- Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"
- Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.
- Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]
- Use is not-for-profit
- Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)
- Use is one-time, or is only occasional or spontaneous

---

### Fair Use Evaluation Documentation

Compiled using the **Fair Use Evaluator** [cc] 2008 Michael Brewer & the Office for Information Technology Policy, [http://librarycopyright.net/fairuse/](http://librarycopyright.net/fairuse/)
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

- Work to be used has been previously PUBLISHED
- Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
- Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)
- Original work was not created and/or has not been marketed for the stated purpose of the proposed use

Fair | | | | | | Unfair

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

- Only limited and reasonable portions will be used
- The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)
- The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]
- If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)
- Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)

Fair | | | | | | Unfair

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

- The work is NOT currently under commercial exploitation (out of print, no licensing available, etc.)
- A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
- Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)
- Use of the work has the potential to create or improve the market for the work
- Proper attribution will be given with the intended use

Fair | | | | | | Unfair
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Fair | 🟢 | | | Unfair

Based on the information and justification I have provided above, I, Matthew P Meeder, am asserting this use is FAIR under Section 107 of the U.S. Copyright Code.

Signature: ______________________
Date of Signature: 7/14/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.
### Purpose and Character of Your Intended Use:

[+] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]
[+] Use is not-for-profit
[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)
[+] Use is one-time, or is only occasional or spontaneous

---

*Name:* Matthew p Meeder  
*Job Title:* Graduate Research Assistant  
*Institution:* Virginia Tech  
*Title of Work Used:* Patent for François Willème’s Photosculpting Rig  
*Copyright Holder:* Patent Office  
*Publication Status:* Published  
*Publisher:*  
*Place of Publication:*  
*Publication Year:* 1864  
*Description of Work:* This is a photo of the original patent for Francois Willemes Photosculpting Rig  
*Date of Evaluation:* July 12, 2016  
*Date of Intended Use:* July 12, 2016
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

- Work to be used has been previously PUBLISHED
- Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
- Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

- Only limited and reasonable portions will be used
- The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)
- Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
- If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)
- The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

- The work is NOT currently under commercial exploitation (out of print, no licensing available, etc.)
- A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
- Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)
- Use of the work has the potential to create or improve the market for the work
- Proper attribution will be given with the intended use

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Fair □ □ □ □ □ □ □ Unfair

Based on the information and justification I have provided above, I, Matthew P. Meeder, am asserting this use is FAIR under Section 107 of the U.S. Copyright Code.

Signature: ____________________________

Date of Signature: 7/14/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.
Name: Matthew P Meeder  
Job Title: Graduate Research Assistant  
Institution: Virginia Tech  
Title of Work Used: Photo of a Copper Printed Rocket Nozzle  
Copyright Holder: Marshalls Materials and Processing Laboratory  
Publication Status: Published  
Publisher: NASA  
Place of Publication: nasa.gov  
Publication Year: 2015  
Description of Work: This is a photo of NASA’s printed copper rocket engine.  
Date of Evaluation: July 12, 2016  
Date of Intended Use: July 12, 2016  

Describe the **Purpose** and Character of Your Intended Use:

[+] Use is for “criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research”  
[+] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]  
[+] Use is not-for-profit  
[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)  
[+] Use is one-time, or is only occasional or spontaneous  
[+] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.

Fair ⚡️ ⚡️ ⚡️ ⚡️ ⚡️ ⚡️ ⚡️ Unfair
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

| + | Work to be used has been previously PUBLISHED |
| + | Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works) |
| + | Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.) |

<table>
<thead>
<tr>
<th>Fair</th>
<th></th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

| + | Only limited and reasonable portions will be used |
| + | The portion used is not the “heart” of the work (the portion considered most central to the work as a whole) |
| + | Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.) |
| + | If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.) |
| + | The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines] |

<table>
<thead>
<tr>
<th>Fair</th>
<th></th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

| + | A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value |
| + | Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience) |
| + | Use of the work has the potential to create or improve the market for the work |
| + | Proper attribution will be given with the intended use |

<table>
<thead>
<tr>
<th>Fair</th>
<th></th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>⬤</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.*
### Name: Matthew P Meeder

### Job Title: Graduate Research Assistant

### Institution: Virginia Tech

### Title of Work Used: Photo of a Modified Transient Plane Source

### Copyright Holder: Unknown

### Description of Work:
This is a cartoon photo of a modified transient plane source machine.

### Date of Evaluation: July 12, 2016

### Date of Intended Use: July 12, 2016

#### Describe the Purpose and Character of Your Intended Use:

- **Masters Thesis**
- [+ Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"
- [+ Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.
- [+ Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]
- [+ Use is not-for-profit
- [+ Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)
- [+ Use is one-time, or is only occasional or spontaneous

---

![Fair Use Evaluation Documentation](http://librarycopyright.net/fairuse/)

---

**Page 1**
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>

- [+] Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
- [+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)
- [+] Original work was not created and/or has not been marketed for the stated purpose of the proposed use

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>

- [+] Only limited and reasonable portions will be used
- [+] The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)
- [+] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
- [+] If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)
- [+] The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>

- [+] A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
- [+] The copyright holder cannot be identified or cannot be found after a reasonable search, or, once found does not respond (one way or another) to requests for permission to use the work
- [+] Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)
- [+] Use of the work has the potential to create or improve the market for the work
- [+] Proper attribution will be given with the intended use
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Based on the information and justification I have provided above, I, Matthew P Meeder, am UNDECIDED whether this use is fair under Section 107 of the U.S. Copyright Code.

Signature: ____________________________
Date of Signature: 7/14/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.
Name: Matthew P Meeder
Job Title: Graduate Research Assistant
Institution: Virginia Tech
Title of Work Used: Photo of a Transient Plane Source Method
Copyright Holder: Science Partner
Publication Status: Unknown
Publisher: 
Place of Publication: 
Publication Year: 
Description of Work: This is a photo of a Transient Plane Source Method for measuring thermal conductivity of a material.
Date of Evaluation: July 12, 2016
Date of Intended Use: July 12, 2016

Describe the **Purpose** and Character of Your Intended Use:

Masters Thesis photo 
[+] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"
[+] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.
[+] Use is not-for-profit
[+] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]
[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)
[+] Use is one-time, or is only occasional or spontaneous
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

[+] Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
[+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)
[+] Original work was not created and/or has not been marketed for the stated purpose of the proposed use

![Fair vs Unfair](image1)

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

[+] The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)
[+] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
[+] If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)
[+] The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

![Fair vs Unfair](image2)

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

[+] A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
[+] Use of the work has the potential to create or improve the market for the work
![](image3)
[+] Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)
[+] Proper attribution will be given with the intended use
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Fair | | | | | | | | | Unfair

Based on the information and justification I have provided above, I, Matthew P Meeder, am UNDECIDED whether this use if fair under Section 107 of the U.S. Copyright Code.

Signature: [Signature]
Date of Signature: 7/4/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.
### Name:
Matthew P Meeder

### Job Title:
Graduate Research Assistant

### Institution:
Virginia Tech

### Title of Work Used:
Photo of ASTM F2792:12a chart

### Copyright Holder:
ASTM

### Publication Status:
Published

### Publisher:
ASTM

### Place of Publication:

### Publication Year:
2012

### Description of Work:
This is a photo of a chart from the ASTM F2792:12a

### Date of Evaluation:
July 12, 2016

### Date of Intended Use:
July 12, 2016

---

**Describe the **Purpose **and Character of Your Intended Use:**

[+] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"

[+] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.

[+] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]

[+] Use is not-for-profit

[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)

[+] Use is one-time, or is only occasional or spontaneous

---

<table>
<thead>
<tr>
<th>Fair</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

<table>
<thead>
<tr>
<th>Work to be used has been previously PUBLISHED</th>
<th>Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)</th>
<th>Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)</th>
<th>Original work was not created and/or has not been marketed for the stated purpose of the proposed use</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Fair ✅    Unfair   ☐

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

<table>
<thead>
<tr>
<th>Only limited and reasonable portions will be used</th>
<th>The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)</th>
<th>If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)</th>
<th>The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Fair ✅    Unfair   ☐

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

<table>
<thead>
<tr>
<th>The work is NOT currently under commercial exploitation (out of print, no licensing available, etc.)</th>
<th>A market for the work as it will be used is absent or is negligible &amp; use of the work will have little or no negative impact on its value or potential value</th>
<th>The copyright holder cannot be identified or cannot be found after a reasonable search, or, once found does not respond (one way or another) to requests for permission to use the work</th>
<th>Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)</th>
<th>Proper attribution will be given with the intended use</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
</tbody>
</table>

Fair ☐    Unfair  ☑
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Fair Unfair

Other Important Criteria:

Use is for a Masters Thesis

Based on the information and justification I have provided above, I, Matthew p Meeder, am asserting this use is FAIR under Section 107 of the U.S. Copyright Code.

Signature: 

Date of Signature: 7/14/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.
Name: Matthew P Meeder  
Job Title: Graduate Research Assistant  
Institution: Virginia Tech  
Title of Work Used: Schematic of a four wire resistance method  
Copyright Holder: Jerry Janesch  
Publication Status: Unknown  
Publisher:  
Place of Publication:  
Publication Year:  
Description of Work: Schematic of a four wire resistance method.  
Date of Evaluation: July 12, 2016  
Date of Intended Use: July 12, 2016  

Describe the **Purpose** and Character of Your Intended Use:

Masters Thesis […] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"  
[+] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.  
[+] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]  
[+] Use is not-for-profit  
[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)  
[+] Use is one-time, or is only occasional or spontaneous
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

[+] Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
[+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)
[+] Original work was not created and/or has not been marketed for the stated purpose of the proposed use

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

[+] Only limited and reasonable portions will be used
[+] The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)
[+] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
[+] If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)
[+] The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

[+] A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
[+] Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)
[+] Use of the work has the potential to create or improve the market for the work
[+] Proper attribution will be given with the intended use

---

*Fair / Unfair
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Based on the information and justification I have provided above, I, Matthew P Meeder, am UNDECIDED whether this use if fair under Section 107 of the U.S. Copyright Code.

Signature: ____________________________
Date of Signature: 7/14/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.
### Description of Work:
This is a schematic of a two wire resistance method. Labels of all the components and wires are shown.

### Date of Evaluation:
July 12, 2016

### Date of Intended Use:
July 12, 2016

### Describe the Purpose and Character of Your Intended Use:

For Masters Thesis: [+ Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"

[+] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.

[+] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]

[+] Use is not-for-profit

[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

[+] Work to be used has been previously PUBLISHED  
[+] Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)  
[+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)  
[+] Original work was not created and/or has not been marketed for the stated purpose of the proposed use

![Fair/Unfair Scale](image)

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

[+] Only limited and reasonable portions will be used  
[+] The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)  
[+] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)  
[+] If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)  
[+] The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

![Fair/Unfair Scale](image)

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

[+] The work is NOT currently under commercial exploitation (out of print, no licensing available, etc.)  
[+] A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value  
[+] Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)  
[+] Use of the work has the potential to create or improve the market for the work  
[+] Proper attribution will be given with the intended use

![Fair/Unfair Scale](image)
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Fair   |   |   |   |   |   |   |   | Unfair

Based on the information and justification I have provided above, I, Matthew P Meeder, am **UNDECIDED** whether this use is fair under Section 107 of the U.S. Copyright Code.

Signature: __________________________

Date of Signature: 7/14/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.*
### Description of Work:
This is a temperature Vs. Time graph for a laser flash diffusivity machine. The cartoon version is labeling the different parts of the transient line.

### Date of Evaluation:
July 12, 2016

### Date of Intended Use:
July 12, 2016

### Masters Thesis
Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"

### Use is transformative
Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.

### Use is socially beneficial
Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]

### Use is not-for-profit
Use is not-for-profit

### Use is one-time, or is only occasional or spontaneous
[ ]

### Use is clearly defined and is restricted in scope
[ ]

---

[ ]

---

Page 1
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>

- [+] Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
- [+] Original work was not created and/or has not been marketed for the stated purpose of the proposed use
- [+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>✗</td>
</tr>
</tbody>
</table>

- [+] Only limited and reasonable portions will be used
- [+] The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)
- [+] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
- [+] If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)
- [+] The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>

- [+] The work is NOT currently under commercial exploitation (out of print, no licensing available, etc.)
- [+] A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
- [+] The copyright holder cannot be identified or cannot be found after a reasonable search, or, once found does not respond (one way or another) to requests for permission to use the work
- [+] Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)
- [+] Use of the work has the potential to create or improve the market for the work
- [+] Proper attribution will be given with the intended use
The Average **"Fairness Level,"** Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Based on the information and justification I have provided above, I, Matthew P Meeder, am asserting this use is **FAIR** under Section 107 of the U.S. Copyright Code.

Signature: [Signature]

Date of Signature: 7/14/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.*
Name: Matthew P Meeder  
Job Title: Graduate Research Assistant  
Institution: Virginia Tech  
Title of Work Used: Thermal Conductivity testing methods overview figure  
Copyright Holder: Unknown  
Publication Status: Unknown  
Publisher:  
Place of Publication:  
Publication Year:  
Description of Work: This is a figure showing all the different types of methods for finding thermal conductivity and the operational ranges for each style of method.  
Date of Evaluation: July 12, 2016  
Date of Intended Use: July 12, 2016  

Describe the **Purpose** and Character of Your Intended Use: Masters Thesis  
[+] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"  
[+] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.  
[+] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]  
[+] Use is not-for-profit  
[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)  
[+] Use is one-time, or is only occasional or spontaneous

![Fair Use Evaluation Scale](image-url)
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>

- Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
- Original work was not created and/or has not been marketed for the stated purpose of the proposed use
- Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>

- Only limited and reasonable portions will be used
- The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)
- Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
- If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)
- The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

<table>
<thead>
<tr>
<th>Fair</th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>

- A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
- The copyright holder cannot be identified or cannot be found after a reasonable search, or, once found does not respond (one way or another) to requests for permission to use the work
- Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)
- Proper attribution will be given with the intended use
- Use of the work has the potential to create or improve the market for the work
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Fair ☑️ Unfair

Based on the information and justification I have provided above, I, Matthew P Meeder, am asserting this use is FAIR under Section 107 of the U.S. Copyright Code.

Signature: __________________________
Date of Signature: 7/4/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.
Name: Matthew P Meeder
Job Title: Graduate Research Assistant
Institution: Virginia Tech
Title of Work Used: Three Dimensional Topographical map of the Grand Canyon
Copyright Holder: Geoblox Science Products
Publication Status: Unknown
Publisher:
Place of Publication:
Publication Year:
Description of Work: This is a photo of a cardboard three dimensional topographical map of the Grand Canyon.
Date of Evaluation: July 12, 2016
Date of Intended Use: July 12, 2016

Describe the **Purpose** and Character of Your Intended Use:

The intended use of this photo is for reference to an idea of creating three dimensional objects using a series of sheets of a material. The photo being used in my Masters Thesis
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

<table>
<thead>
<tr>
<th>Fair</th>
<th></th>
<th></th>
<th></th>
<th>Unfair</th>
</tr>
</thead>
</table>

[+] Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)

[+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)

---

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

<table>
<thead>
<tr>
<th>Fair</th>
<th></th>
<th></th>
<th></th>
<th>Unfair</th>
</tr>
</thead>
</table>

[+] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)

[+] The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

---

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

<table>
<thead>
<tr>
<th>Fair</th>
<th></th>
<th></th>
<th></th>
<th>Unfair</th>
</tr>
</thead>
</table>

[+] The copyright holder cannot be identified or cannot be found after a reasonable search, or, once found does not respond (one way or another) to requests for permission to use the work

[+] Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)

[+] Proper attribution will be given with the intended use
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Based on the information and justification I have provided above, I, Matthew P Meeder, am asserting this use is FAIR under Section 107 of the U.S. Copyright Code.

Signature: [Signature]
Date of Signature: [7/14/2016]

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.
Name: Matthew P Meeder  
Job Title: Graduate Research Assistant  
Institution: Virginia Tech  
Title of Work Used: Time Vs. Voltage graph for the Modified Transient Plane Source Method  
Copyright Holder:  
Publication Status: Unknown  
Publisher:  
Place of Publication:  
Publication Year:  
Description of Work: This a graph showing the voltage Vs. time correlation for the modified transient plane source if there was a insulator or a conductive piece of metal.  
Date of Evaluation: July 12, 2016  
Date of Intended Use: July 12, 2016

Describe the **Purpose** and Character of Your Intended Use:

Masters Thesis  
[+] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"  
[+] Use is one-time, or is only occasional or spontaneous  
[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)  
[+] Use is not-for-profit  
[+] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]  
[+] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.

Fair ☑️  ❌  ❌  ❌  ❌  ❌  ❌  ❌  ❌  Unfair
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

| + Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works) | ✓ |  |  |  |  |  |  |
| + Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.) | ✓ |  |  |  |  |  |  |
| + Original work was not created and/or has not been marketed for the stated purpose of the proposed use |  |  |  |  |  |  |  |

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

| + Only limited and reasonable portions will be used | ✓ |  |  |  |  |  |  |
| + The portion used is not the “heart” of the work (the portion considered most central to the work as a whole) |  |  |  |  |  |  |  |
| + Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.) |  |  |  |  |  |  |  |
| + If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.) |  |  |  |  |  |  |  |
| + The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines] |  |  |  |  |  |  |  |

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

| + A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value |  |  |  |  |  |  |  |
| + The copyright holder cannot be identified or cannot be found after a reasonable search, or, once found does not respond (one way or another) to requests for permission to use the work |  |  |  |  |  |  |  |
| + Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience) |  |  |  |  |  |  |  |
| + Use of the work has the potential to create or improve the market for the work |  |  |  |  |  |  |  |
| + Proper attribution will be given with the intended use |  |  |  |  |  |  |  |
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Fair | | Unfair

Based on the information and justification I have provided above, I, Matthew P Meeder, am asserting this use is **FAIR** under Section 107 of the U.S. Copyright Code.

Signature: 
Date of Signature: 7/14/2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.*
Name: Matthew P Meeder
Job Title: Graduate Research Assistant
Institution: Virginia Tech
Title of Work Used: Valence Electrons of Group 11 elements
Copyright Holder: Unknown
Publication Status: Unknown
Publisher:
Place of Publication:
Publication Year:
Description of Work: This is a figure showing the atomic structure of the group 11 elements on the periodic table.
Date of Evaluation: July 12, 2016
Date of Intended Use: July 12, 2016

Describe the **Purpose** and Character of Your Intended Use:

**Masters Thesis**
[+ ] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"
[+ ] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.
[+ ] Use is socially beneficial (promotes the creation of new knowledge, learning, etc.) [define how]
[+ ] Use is not-for-profit
[+ ] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)
[+ ] Use is one-time, or is only occasional or spontaneous

**Fair Use Evaluation**

<table>
<thead>
<tr>
<th>Fair</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>Unfair</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

- [x] Work to be used has been previously PUBLISHED
- [ ] Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
- [ ] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)
- [ ] Original work was not created and/or has not been marketed for the stated purpose of the proposed use

---

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

- [ ] Only limited and reasonable portions will be used
- [ ] The portion used is not the “heart” of the work (the portion considered most central to the work as a whole)
- [ ] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
- [ ] If the entire work is to be used (which would NOT favor the use being fair), it is clear that no less than the entire work will achieve the stated purpose of the use (e.g. use of a photograph, a short poem, an article, etc.)
- [ ] The amount used falls within widely recognized fair use guidelines* vetted by key stakeholder groups [reference guidelines]

---

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

- [ ] The work is NOT currently under commercial exploitation (out of print, no licensing available, etc.)
- [ ] A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
- [ ] The copyright holder cannot be identified or cannot be found after a reasonable search, or, once found does not respond (one way or another) to requests for permission to use the work
- [ ] Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)
- [ ] Use of the work has the potential to create or improve the market for the work
- [ ] Proper attribution will be given with the intended use
The Average "Fairness Level," Based on Your Rating of Each of the 4 Factors, Is:

[see tool disclaimer for important clarifying information]:

Based on the information and justification I have provided above, I, Matthew P Meeder, am asserting this use is FAIR under Section 107 of the U.S. Copyright Code.

Signature: ________________________________
Date of Signature: 7 / 14 / 2016

*Disclaimer: This document is intended to help you collect, organize & archive the information you might need to support your fair use evaluation. It is not a source of legal advice or assistance. The results are only as good as the input you have provided by are intended to suggest next steps, and not to provide a final judgment. It is recommended that you share this evaluation with a copyright specialist before proceeding with your intended use.