



Canadian Association of Medical
Radiation Technologists

AWARDS PROGRAM

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www.camrt.ca

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Introduction

In keeping with the Association's Mission, Vision and Values, the CAMRT Awards Program celebrates who we are as professionals and identifies the diverse ways in which members bring quality care to the patient, impact the delivery of healthcare services and share their expertise.

The CAMRT is proud to support leadership in our field by recognizing the efforts and accomplishments of members through the Honorary and Competitive Awards Program and the Speaker Exchange Program.

This guide describes each award category, and provides details on submission, selection and judging processes.

Applications for submission are found on the CAMRT website:

<https://www.camrt.ca/mrt-profession/professional-recognition/>

Acknowledgements

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COMPETITIVE AWARDS

The CAMRT invites submissions on any radiological technology, radiation therapy, magnetic resonance, or nuclear medicine subject matter related to topic areas/categories listed in the chart below.

There are three (3) topic areas: education, technical and non-technical. Submissions for each topic can take the format of a scientific paper, a narrative paper or an exhibit.

Submissions are open to practicing medical radiation technologists and students studying in accredited programs. The competition for practicing technologists is separate from students with each having their own competition, however the categories and topics remain the same.

Entries to the competition should:

- Advance the practice of medical radiation technology
- Enhance understanding of an aspect of medical radiation technology
- Capture the reader's attention and interest

Topic Area	Categories					
	Scientific paper		Narrative paper		Exhibit (media/multimedia)	
Education Innovative Learning Activities – didactic, clinical or continued competency	MRT	Student	MRT	Student	MRT	Student
Technical Imaging procedures, therapy techniques, imaging/therapy modalities	MRT	Student	MRT	Student	MRT	Student
Non-technical Patient management, department management/administration, professional behavior, leadership	MRT	Student	MRT	Student	MRT	Student

The competitive awards will be judged and awarded according to the following category groupings:

MRT Category 1: Best Scientific Paper, all topics

MRT Category 2: Best Narrative Paper, all topics

MRT Category 3: Best Exhibit, all topics

Student Category 1: Best Scientific Paper, all topics

Student Category 2: Best Narrative Paper, all topics

Student Category 3: Best Exhibit, all topics

Guidelines for Competitive Award Submission Format

Scientific Paper

Description

Scientific articles communicate the results of the author's research. A standard format is used for these articles, in which the author presents the research in an orderly, logical manner. This doesn't necessarily reflect the order in which the work is conducted. A common format is:

- Title
- Abstract
- Introduction
- Literature Review (done as part of the research process)
- Materials and Methods
- Results (with Tables and Figures, if applicable)
- Discussion
- Conclusion
- Literature Cited

More guidance on each section of an article or paper can be found in Appendix B.

Requirements

- 2500-3000 words
- Appendix A and B criteria met

Judging criteria

Entries will be judged on originality, clear expression of ideas, research approach, understanding of impact on practice, and adherence to format. Please see Appendix A - Competitive Award Regulations and Appendix B – Scientific Paper Assessment Rubric.

Narrative Paper

Description

This category is intended for professional writing that is both less technical and research-driven in its content on topic areas listed on page 2.

A Narrative-Descriptive Paper may:

- Provide a unique and/or insightful perspective on an aspect of medical radiation technology
- Review and summarize relevant literature on a topic related to medical radiation technology (i.e., Literature Review)
- Describe a meaningful professional experience
- Share first-hand knowledge
- Express a viewpoint

Requirements

- 1500-3000 words
- 12pt font, double-spaced
- Original work
- Respects patient confidentiality

Judging criteria

Entries will be judged on introduction, organization, idea development, author's voice, professional relevance/impact on practice, closing and adherence to format/mechanics. Please see Appendix A - Competitive Award Regulations and Appendix C – Narrative-Descriptive Writing Assessment Rubric.

Media/Multi-Media Exhibits

Description

Media/multi-media exhibits can be submitted for assessment under the exhibit competitive award category. The content can be related to any topic area listed on page 2. Examples of the formats that fall in this category are scientific posters, power-point presentations, podcasts and webinars.

Requirements

The multimedia submission should have been created in the year prior to and up to the award submission deadline.

Some recommended examples of media/multimedia exhibit requirements:

- Multimedia exhibits should not exceed 30 minutes
- Pod-casts, webinars, blogs and other forms of on-line communication can be edited to meet the 30-minute limit
- Posters should be created by poster generating software, such as PowerPoint posters, and should be referenced using APA citation format

Judging criteria

Entries will be judged on design, use of enhancements, branching, originality, relevance to medical radiation technology, impact on practice and quality. Please see Appendix A - Competitive Award Regulations and Appendix D – Multimedia (Exhibit) Assessment Rubric.

SPEAKER EXCHANGE COMPETITIONS

ASRT Radiation Therapy Conference

The CAMRT collaborates with the American Society of Radiologic Technologists (ASRT) to provide a speaker for ASRT's annual radiation therapy conference. The conference takes place in conjunction with the Annual Meeting of the American Society for Radiation Oncology (ASTRO).

The speaker is selected through a competitive process from among the CAMRT membership. Interested CAMRT members are annually invited to submit applications that include:

- An abstract of no more than 200 words that describes the proposed presentation. It should address a topic in the fields of radiation therapy or dosimetry that is advanced, innovative or forward-thinking.
- Objectives for the presentation (separate from the 200-word abstract).
- An outline for the presentation (also separate from the 200-word abstract).
- A CV (up to 3 pages) that includes information about the applicant's speaking experience.

In submitting a proposal, applicants confirm that they will be available to make this presentation, if selected, on the dates indicated for the conference.

Judging criteria

Applications will be reviewed by a selection panel and will be judged on the following criteria:

- Does the topic address an important current issue in the field of radiation therapy, including dosimetry?
- How relevant is the proposed presentation to an international audience?
- How well does the proposed presentation emphasize the Canadian experience in relation to the topic?
- Do the abstract, objectives and outline demonstrate that the proposed presentation will be impactful?
- What experience does the applicant have making quality presentations?

ASRT @ RSNA

The American Society of Radiologic Technologists hosts an annual technologist-focused conference, which is called ASRTatRSNA, during the RSNA in Chicago. Through an agreement with the ASRT, the CAMRT provides a speaker for this conference.

The speaker is selected through a competitive process from among the CAMRT membership. Interested CAMRT members are annually invited to submit applications that include:

- An abstract of no more than 200 words that describes the proposed presentation. It should address a topic in the field of radiological technology, nuclear medicine technology or magnetic resonance imaging that is advanced, innovative or forward-thinking.
- Objectives of the presentation (separate from the 200-word abstract).
- An outline of the presentation (also separate from the 200-word abstract).
- A CV of up to 3 pages that includes information about the applicant's speaking experience.

In submitting a proposal, applicants confirm that they will be available to make this presentation, if selected, on the dates indicated for the conference.

Judging criteria

Applications are reviewed by a selection panel and judged using the following criteria:

- Does the topic address an important current issue in the field of radiological technology, nuclear medicine technology or magnetic resonance imaging?
- How relevant is the proposed presentation to an international audience?
- How well does the proposed presentation emphasize the Canadian experience in relation to the topic?
- Do the abstract, objectives and outline demonstrate that the proposed presentation will be impactful?
- What experience does the applicant have making quality presentations?

HONORARY AWARDS

Life Membership

Description

Life Membership represents the highest form of recognition by one's peers and is designed to honour a member of the CAMRT whose professional activities have promoted the MRT profession nationally or internationally, whose leadership serves to motivate others to become involved in professional activities, and who has been involved in raising the profile of the CAMRT.

Eligibility

- The Board of Directors of the association may confer this classification of membership on current Full Practice, Non-Practicing (in the Full Practice qualified), Limited Practice or Senior Member categories
- The significant contribution must be demonstrated over at least 25 years of CAMRT membership as identified above, and service to the profession/association at a national and/or internationally level
- No member holding office in the association shall be eligible for nomination to this class of distinguished membership while in office

Nomination and Selection

Nominees for Life Membership may be put forward by Provincial Organizations or any five (5) members of the CAMRT. A call for nominations is sent out to provinces and members by early Fall each year. The Board Awards Sub-Committee will make their recommendations at the late winter board meeting.

Only one Life Membership may be conferred yearly.

The Life Member certificate and an engraved trophy will be presented to the individual during CAMRT's Celebration of Excellence at the annual conference.

Judging Criteria

- Is the nominee an eligible CAMRT member?
- Has the nominee promoted the profession nationally and/or internationally?
- Does the nominee's leadership serve to motivate others to become involved in professional activities?
- Has the nominee been involved in raising the profile of the CAMRT?
- Has the nominee made consistent contributions to the CAMRT?
- Is the nominee recognized as a leader in the profession?

Honorary Life Membership

Description

Honorary Life Membership is designed to honour an individual whose professional activities have promoted the MRT profession nationally or internationally, whose leadership serves to motivate others to become involved in professional activities, and who has been involved in raising the profile of the CAMRT or the profession.

Eligibility

- Persons eligible may include persons who are not otherwise eligible for membership in the CAMRT, such as:
 - Those who are employed by Commercial Organizations
 - Those who are a member in the Commercial Representative Category
 - Those who are a Non-Practicing Member in the international category
- The significant contribution must be demonstrated over at least 15 years of CAMRT membership or service to the profession/association at a national or international level

Nomination and Selection

Nominees for Honorary Life Membership may be put forward by Provincial Organizations or any five (5) CAMRT members. A call for nominations is sent out to the provinces and members by early Fall each year. The Board Awards Sub-Committee will make their recommendations at the late winter board meeting.

Only one Honorary Life Membership may be conferred yearly.

The Honorary Life Member certificate and an engraved trophy will be presented to the individual during CAMRT's Celebration of Excellence at the annual conference.

Judging Criteria

- Has the nominee promoted the profession nationally and/or internationally?
- Does the nominee's leadership serve to motivate others to become involved in professional activities?
- Has the nominee been involved in raising the profile of the CAMRT?
- Are the nominee's contributions to the profession widely recognized?

Welch Memorial Lecture

Description

The Welch Memorial Lecture was established in 1951 to honour Mr. Herbert M. Welch, one of the pioneer members of the association. Mr. Welch was also president of the association from 1949 to 1950.

To be chosen to deliver this lecture is considered an honour, which is bestowed upon a member of the CAMRT who has made an outstanding contribution to the profession at a national level. The recipient must have influenced the growth of the profession in clinical practice, education, research, and/or administration. The Welch Memorial Lecture may be on the lecturer's topic of choice.

Note: The current year's Welch Memorial Lecturer is not eligible to participate in the CAMRT Competitive Awards (essay/exhibit).

Eligibility

- Nominees should be Current Full Practice or Non-Practicing Members in the Full Practice Qualified, or Senior Member categories
- There is no restriction as to years of membership within CAMRT
- Ability and willingness to provide a noteworthy presentation that is reflective of the vision and values of the association

Nomination and Selection

Nominees for the Welch Memorial Lecturer may be put forward by Provincial Organizations or individual CAMRT members. A call for nominations is sent out to the provinces and members by early Fall each year. The Board Awards Sub-Committee will make their recommendations at the late winter board meeting.

The Welch Memorial Lecture will be presented during the following year's annual conference.

As a record of having gained the distinction of delivering the Welch Memorial Lecture, the association provides an engraved trophy, which each recipient keeps as a permanent memento.

Judging Criteria

- Is the nominee a CAMRT member?
- Has the nominee made a significant contribution to the profession at the national level?
- Has the nominee influenced the growth of the profession in (one or more of):
 - Clinical practice; Education; Research; Administration
- Has the nominee promoted and perpetuated excellence in the profession?
- Has the nominee influenced others toward higher levels of achievement and/or attainment?
- Is the nominee recognized as a leader in the profession?

Dr. Marshall Mallett Lamp of Knowledge Award

Description

Sponsored by the CAMRT Foundation, the Dr. Marshall Mallett Lamp of Knowledge Award is designed to honour a member of the CAMRT who, in the opinion of the Board of Directors, has made a significant contribution to the profession and/or association at a national level in the field of education. The Alberta Division first donated the Marshall Mallett Award to the CAMRT in 1957.

Eligibility

- Current Full Practice or Non-Practicing Member in the Full Practice Qualified, or Senior Member categories
- There is no restriction as to years of membership within CAMRT

Nomination and Selection

Nominees for this award may be put forward by Provincial Organizations or individual CAMRT members. A call for nominations is sent out to the provinces and members by early Fall each year. The Board Awards Sub-Committee will make their recommendations at the late winter board meeting.

Since the recipient must have made a significant contribution, the award will only be given when deemed appropriate. If given, the award will be presented during CAMRT's Celebration of Excellence at the annual conference.

As a record of having gained the distinction of receiving the Marshall Mallett Lamp of Knowledge Award, recipients receive an engraved trophy, which they keep as a permanent memento.

Judging Criteria

- Is the nominee a CAMRT member?
- Has the nominee's significant contribution in the field of education had a national impact?
- Has the nominee developed significant educational programs and/or courses that, for example, allowed or facilitated a significant shift in the profession?
- Does the nominee contribute regularly to professional education by: e.g., conducting sessions; publishing articles; mentoring or supporting students?
- Has the nominee helped to establish and/or promote high standards in education for the profession?
- Is the nominee seen as a leader in the field of education for the profession?

Steward of the Profession Award

Description

Sponsored by the CAMRT, the Steward of the Profession Award honours a CAMRT member who has advocated for and worked to advance the profession at both the national and provincial levels. By doing so he or she has demonstrated the importance of members playing an active role in strengthening and advancing their profession.

Eligibility

- Current CAMRT members in good standing
- Current board members or staff are not eligible for recognition in this category

Nomination and Selection

Nominees for this award may be put forward by Provincial Organizations or individual CAMRT members. A call for nominations is sent out to the provinces and members by early Fall each year. The Board Awards Sub-Committee will make their recommendations at the late winter board meeting.

Since the recipient must have made a significant contribution, the award will only be given when deemed appropriate. If given, the award will be presented during CAMRT's Celebration of Excellence at the annual conference.

As a record of having gained the distinction of receiving the Steward of the Profession Award, recipients will receive an engraved trophy, which they keep as a permanent memento.

Judging Criteria

- What evidence is there that the nominee has:
 - Made significant contributions as a volunteer to the profession both provincially and nationally?
 - Led others to become involved as volunteers to build and strengthen the profession?
 - Supported others in the profession through efforts such as mentoring?
 - Raised the profile of the profession by advocating for the profession and for patients served by MRTs?
 - Supported efforts to raise the standards of the profession in clinical practice, education, research or management?
- What evidence is there that the nominee is regarded as a steward or champion of the profession in their province and nationally?

Early Professional Achievement Award

Description

Sponsored by the CAMRT, the Early Professional Achievement Award is designed to honour a member of the CAMRT who, in the opinion of the Board of Directors has provided, at an early stage in their career, inspiration and leadership to their colleagues by acting as a role model of professionalism and/or volunteerism.

The CAMRT would like to recognize early career achievements amongst members so as to assist in highlighting its vision for the profession and its expectation that members will contribute to the profession. It wants to encourage technologists early in their careers to become involved with their professional organizations and believes honouring them at this early stage emphasizes the CAMRT's commitment to members at all points of their professional life.

Eligibility

- Current Full Practice member in the full practice qualified category
- Members who are within the first ten (10) years of their careers as an MRT
- Current board members are not eligible for recognition in this category

Nomination and Selection

Nominees for this award may be put forward by Provincial Organizations or individual CAMRT members. A call for nominations is sent out to the provinces and members by early Fall each year. The Board Awards Sub-Committee will make their recommendations at the late winter board meeting.

Since the recipient must have made a significant contribution, the award will only be given when deemed appropriate. If given, the award will be presented during CAMRT's Celebration of Excellence at the annual conference. There may be up to five awards presented annually.

As a record of having gained the distinction of receiving the Early Professional Achievement Award, recipients will receive an engraved plaque, which they keep as a permanent memento. They will also receive complimentary full national membership for the next membership year. (This excludes the respective provincial organization's membership fees).

Judging Criteria

- Is the nominee a CAMRT member?
- Has the nominee acted as a role model of professionalism and/or volunteerism in one or more of:
 - Clinical practice; Education; Research; Administration
- Has the nominee provided inspiration and/or leadership that has the potential to influence the profession beyond their province?
- Has the nominee influenced others toward higher levels of achievement and/or attainment?
- Is the nominee recognized as a leader in their province?

Grassroots Advocacy Award

Description

Established in 2016, the CAMRT Grassroots Advocacy Award is designed to honour a member of the CAMRT who, in the opinion of the Board of Directors, has made a significant contribution to the profession and/or association through advocacy.

Eligibility

- Current Full Practice or Non-Practicing Member in the Full Practice Qualified, or Senior Member categories
- Evidence of significant achievement in grassroots government or public advocacy
 - The Advocacy must have been related activities specific to or that impact on the MRT profession
 - No formal restriction on type of advocacy (may include government meetings, communications campaigns, etc.)
 - Within the year prior to conferring the award

Nomination and Selection

Nominees for this award may be put forward by the Advocacy Advisory Council (AAC), Provincial Organizations or by individual CAMRT members. A call for nominations is sent out to the provinces, the AAC and members by early Fall each year. The Board Awards Sub-Committee will make their recommendations at the late winter board meeting.

Since the recipient must have made a significant contribution, the award will only be given when deemed appropriate

As a record of having gained the distinction of receiving the CAMRT Grassroots Advocacy Award, recipients receive an appropriate token of recognition, which they keep as a permanent memento.

Judging Criteria

- Is the nominee a CAMRT member?
- Has the nominee taken part in government relations or public advocacy for the MRT profession at the national, provincial or local level?
- Has the nominee, through advocacy, influenced the growth of the MRT profession in one or more of:
 - Clinical practice; Education; Research; Administration; General recognition for the profession
- Has the nominee influenced others to take up professional advocacy?

Outstanding Service Award

Description

Sponsored by CAMRT, the Outstanding Service Award honors a staff member or volunteer who has served the CAMRT with dedication, integrity and commitment to the values and mission of the CAMRT. By doing so the individual has demonstrated long term commitment, exceptional performance and engagement in performing their service and significantly influenced the success of the association and the profession

Eligibility

- Must have been employed by or contributed service to the CAMRT for a minimum of 10 years
- Must have demonstrated a contribution that has significantly impacted the direction and quality of service provided by the association and/or the direction of the profession
- Current Board members are not eligible for this award

Nomination and Selection

Nominees for this award may be put forward by CAMRT members, CAMRT staff and CAMRT Board members. Nominations will be reviewed by the Awards Committee with a recommendation made to the Board for approval. There does not need to be a recipient every year. The recipient will receive a gift as a memento.

Guidelines for Selection of Recipient

- Is the number of years of service 10 or more years?
- Has the nominee interacted in a positive manner with others and been sought out as a team member or leader?
- Is the nominee recognized for a high level of commitment and dedication?
- Has the nominee influenced and mentored others to seek higher achievement within the profession?
- Has the nominee recognized what is required to improve or change the direction of service/practice that will enhance the credibility of the association/profession and consistently contributed exceptional work that has a lasting impact?

Appendix A – Competitive Award Regulations

Manuscripts and exhibits may be submitted in English or French and can only be submitted in **one** of the competitive award categories. The manuscript or exhibit should not have been previously offered for publication to the CAMRT or to any other organization, nor submitted for any previous CAMRT competition nor displayed at a previous CAMRT conference. Manuscripts or exhibits that are deemed to be largely aimed at promoting a commercial end will not be accepted. For exhibits, material drawn from award-winning essay competition entries will not be accepted, in whole or in part, for the exhibit competition.

The paper and exhibits must be directly related to the practice of radiological technology, radiation therapy, magnetic resonance or nuclear medicine, or to such subjects as education and training, administration, or communications within these fields as described in the competitive award categories.

To ensure a fair judging process, we request that author(s) are de-identified on the manuscript or exhibit. In addition, institutions and other locales should not be named in the manuscript, associated illustrations or exhibits and we suggest the use of generic terms throughout the text (i.e., “the hospital,” “our department”). Entries that do not meet this requirement will be disqualified.
(*Entries requiring only minor modifications can be resubmitted.*)

MRT Submissions: Authors/Presenters must be current CAMRT members. Where there is a joint submission, only the lead author is required to be a medical radiation technologist and a CAMRT member.

Student Submissions: Students must be CAMRT Student members*, and are required to still be a student at the time of authoring/presenting their submission.
(*Free membership: <https://www.camrt.ca/membership/membership-categories-dues/>)

Format (scientific and narrative papers only)

Word process the manuscript, double-spaced on 8 ½" x 11" (21.6 cm x 27.9 cm) paper, with margins of at least 1 ½" (4 cm.). Do not justify right margins. Begin each of the following sections on separate pages in the following order: title page, abstract, text, references, bibliography, tables (each on a separate page), and legends. Number pages consecutively, beginning with the title page. Paragraphs should begin with an indentation of at least five spaces. Handwritten changes are not acceptable.

Text

To facilitate the publication of essays we suggest that the text be formatted according to the criteria outlined by the Editorial Board of the *Journal of Medical Imaging and Radiation Sciences*. This is especially important for the submission of scientific and research papers. Please consult the authors' information section of the JMIRS web site at www.jmirs.org/authorinfo

Ethical and Legal Issues

Studies on patients or volunteers require ethics committee approval and informed consent, which should be documented in your paper. No reference to any patient's identity should be made anywhere in the manuscript. Such information as names, initials, hospital numbers, dates and personal histories must be avoided. Written consent must be obtained from patients for the use of any photographs. As for the names of medication, whenever possible, the appropriate generic name of the medication should be used.

Submission of Manuscript or Exhibit

Scientific and Narrative Papers: Complete the online entry form in the Awards Program section of the CAMRT website and attach your manuscript and illustrations. Manuscripts should preferably be in PDF format. If you are not able to create a PDF file, then submit the manuscript in Word format. Illustrations should be forwarded as a Jpeg or Tiff file.

Exhibit: Complete the online entry form in the Awards Program section of the CAMRT website and attach your exhibit. All submissions for the exhibit competition must be in electronic format (e.g., PowerPoint*, Video*, PDF, JPEG or TIFF file) to facilitate circulation of the submissions to reviewers.

All submissions entered in accordance with competition regulations will be acknowledged.

Eligibility Exclusions

The following individuals are not eligible to participate in the Essay/Exhibit Competition: members of the CAMRT Board of Directors, association employees, the current year's competition judges, CAMRT members who are employed by manufacturers of medical equipment, accessories or supplies in the field of medical radiation technology, and the current year's Welch Memorial Lecturer.

Publication of Manuscripts

After the competition, we encourage all authors to submit their papers to the *Journal of Medical Imaging and Radiation Sciences* for consideration. All papers will be subject to JMIRS' peer-review process and subject to other journal publication requirements with regard to copyright ownership.

Display and Presentation of Exhibits

Winning exhibits will be displayed on the CAMRT website (camrt.ca). Interested applicants may also have the opportunity to present their exhibit and have a live question and answer period on CAMRT's Communities of Practiceonline forum.

Judging Criteria

A minimum of 75% must be obtained for a winner to be declared in any category. Certificates of Merit will be awarded for submissions that place within five (5) percentage points of the winner in each category.

Practicing MRTs and students will be judged separately, but using the same criteria. Judging criteria and the respective evaluation rubrics can be found under each category description and respective appendices.

One award may be granted to both an MRT and a student in each of the competitive award categories.

A caution about plagiarism

Plagiarism – taking ideas, wording, or otherwise using someone else’s work as your own – is cause for immediate disqualification. Be sure to provide proper references for any material used verbatim from other sources and for observations or conclusions derived from others’ work.

Submission of a paper or exhibit signifies acceptance of the regulations and of the intent of the regulations. Failure to comply, in particular with those regulations under the heading of "Eligibility", could result in disqualification.

If you have any questions please contact: awards@camrt.ca

Appendix B.1 – Scientific Paper, Guidance

1. Title

The title is used to captivate and peak the readers interest. More people will read the title than any other part of your publication. Readers use the title to decide whether to read further or to put the paper away.

For consideration:

- Make your title specific enough to describe the contents of the paper, but not so technical that only specialists will understand.
- The title should be appropriate for the intended audience.
- Describe contents clearly and precisely, so it captures the reader's attention.
- The title should avoid the use of abbreviations and jargon.

2. Abstract

This is a summary that gives the reader a 'preview' of the article. The abstract should reflect the content of the article and include the purpose of the study, the experimental design, the most important results and an interpretation of the data, including the conclusion and any implications derived from the results. The abstract should be between 150-200 words.

3. Introduction

The introduction summarizes the relevant literature so that the reader will understand why you were interested in your research question. State the purpose of the article and summarize the rationale for the study or observation. Do not include data or conclusions from the work being reported, but end with a sentence explaining the specific question you asked in this experiment.

For consideration:

- What is literature saying about your topic?
- What question did you ask in your experiments?
- Why is it interesting?

4. Methods

This section outlines how and why your study was done in a particular way.

For consideration:

- How did you answer your research question? There should be enough information here to allow another individual to repeat your experiment.
- Can the reader repeat this research? For complicated protocols, including a diagram, table or flowchart to explain the methods you used may be helpful.
- Methods should not be included in the Results section or figure legends.

- Mention relevant ethical considerations. If you used human subjects, indicate how consent was obtained. If applicable, whether approval was obtained from the Research Ethics Board.

5. Results

This section should be presented in logical sequence in the text, tables and illustrations. Emphasize or summarize important observations.

For consideration, **avoid:**

- Discussing the results or speculate as to why something happened - that goes in the Discussion section.
- Repeating in the texts all the data in the tables or illustrations.
- Including all the data you obtained from this research.
- Manipulating the data to make it look like you did more than you actually did.

6. Discussion

This section highlights the most significant results. Do not just repeat what has been written in the Results section. Emphasize the new and important aspects of the study and the inferences drawn from the data. Include the implications of the findings and their limitations, including implications for future research. Relate observations to other relevant studies.

For consideration:

- Discuss how these results relate to the original question.
- How does the data support or refute your hypothesis?
- Are your results consistent with what other investigators have reported?
- If your results were unexpected, try to explain why. Is there another way to interpret your results?
- What further research would be necessary to answer the questions raised by your results?

7. Conclusion

The conclusion should address the topic in a way that makes the reader think. The conclusion should reflect upon the significance of what has been written with the aim to convey thoughts about the larger implications of the arguments presented or position written for the reader to still think about after they have completed reading the essay.

Link the conclusions with the goals of the study, but avoid unqualified statements and conclusions not completely supported by the data. In particular, avoid making statements unless the manuscript contains data to support the claim.

Recommendations, when appropriate, may be included.

8. Reference/Literature Cited

It is essential to credit published papers for work mentioned in your manuscript. The style chosen should be based on what is set by competition guidelines.

Appendix B.2 – Scientific Paper, Assessment Rubric

	0-2	3-5	6-8	9-10	Weighting	Score
Originality	<p>Title of the paper does not accurately describe the topic of the paper.</p> <p>Topic and ideas are not new or novel.</p> <p>Research question is trivial.</p>	<p>Title of the paper could be improved to better reflect the topic of the paper.</p> <p>Introduction may require some work to fully catch the reader's attention.</p> <p>Topic and ideas may be lacking in originality; however, elements of the paper have potential to contribute to the MRT body of knowledge. Further work required.</p>	<p>Title of the paper effectively describes the topic.</p> <p>Introduction catches the reader's attention.</p> <p>Topic may lack in originality; however, ideas, findings and/or approach are new and novel, contributing to the MRT body of knowledge.</p>	<p>Title of the paper effectively describes the topic.</p> <p>Introduction catches the reader's attention.</p> <p>Presents their own opinion communicating original ideas.</p> <p>Originality in choice of topic and research design. Asks and answers a new and intriguing question, contributing to the MRT body of knowledge</p>	15%	
Clear Expression of Ideas	<p>Abstract lacking in clarity and brevity (or missing completely)</p> <p>Demonstrates little understanding of existing knowledge/literature related to the topic.</p>	<p>Abstract lacking in either clarity or brevity.</p> <p>Research problem is not clearly stated.</p> <p>Demonstrates basic understanding of existing knowledge/literature on the topic. Evidence of incorrect inferences drawn from the literature and/or instances where some aspects of the literature review may be irrelevant to the research question.</p>	<p>Abstract provides a clear overview of the topic, approach and argument.</p> <p>Research problem is clearly stated.</p> <p>Demonstrates understanding of existing knowledge/literature on the topic; however, there may be evidence of incorrect inferences drawn from the literature or instances where some aspects of the literature review may be irrelevant to the research question.</p>	<p>Abstract is concise and provides a clear overview of the topic, approach and argument (~150 words).</p> <p>Research problem is clearly stated.</p> <p>Demonstrates understanding of existing knowledge/literature on the research topic and identifies the relationship of their topic to related literature.</p> <p>Clearly communicates research results.</p>	30%	

	0-2	3-5	6-8	9-10	Weighting	Score
Research approach	<p>Literature is not critically appraised.</p> <p>Research design and/or methods are not appropriate for topic.</p> <p>Weaknesses in research are not clearly identified.</p>	<p>Candidate reviews current literature, though critical evaluation is consistently weak.</p> <p>Research design may not be the most appropriate for the topic.</p> <p>Research methods are described.</p> <p>Weaknesses in research may or may not be clearly identified.</p>	<p>Candidate provides a thorough review of current literature related to the topic, though critical evaluation may be lacking in some instances.</p> <p>Research design is appropriate for topic.</p> <p>Research methods are clearly described.</p> <p>Weaknesses in research may or may not be clearly identified.</p>	<p>Candidate critically examines current literature related to the topic.</p> <p>Research design is appropriate for the topic</p> <p>Research methods are clearly and concisely described</p> <p>Weaknesses in research are identified</p>	15%	
Professional Relevance/ Impact on Practice	<p>Paper is not relevant to MRT practice and does not work toward advancing practice.</p> <p>The candidate shows little or no attempt to extend on past research questions, a policy or practice, solve a contradiction, fill gap in current literature and/or weigh in on a debate.</p>	<p>The paper is only somewhat relevant to MRT practice.</p> <p>The candidate's argument shows little attempt at extending on past research questions, a policy or practice, solving a contradiction, filling a gap in current literature and/or weighing in on a debate.</p> <p>Overall the paper is lacking in valuable insight.</p>	<p>The paper relates directly to MRT practice.</p> <p>The candidate's argument shows a good attempt at extending on past research questions, a policy or practice, solving a contradiction, filling a gap in current literature and/or weighing in on a debate, though ultimately may be lacking in valuable or unique insights.</p> <p>Has potential to advance the practice, but more work required.</p>	<p>The paper relates directly to MRT practice.</p> <p>The candidate's argument extends on past research, questions a policy or practice, solves a contradiction, fills a gap in current literature and/or weighs in on a debate contributing a valuable perspective and/or advancing practice.</p>	30%	

	0-2	3-5	6-8	9-10	Weighting	Score
Mechanics	<p>No regard for format</p> <p>Essay is difficult to read because of too simplistic sentence structure and/or too many fragments</p> <p>Essay has 9 or more errors (spelling, grammar, punctuation)</p> <p>Evidence of plagiarism – submission automatically disqualified</p>	<p>Missing most aspects of formatting but not all.</p> <p>Essay is somewhat difficult to understand as there are many poorly constructed sentences or fragments</p> <p>Essay has 6 to 8 errors (spelling, grammar, punctuation)</p> <p>In text citations and references are included as appropriate</p>	<p>Has most of the proper formatting but wrong font, or spacing, etc.</p> <p>Essay has a few sentence errors and/or is lacking in variety or complexity</p> <p>Essay has 3 to 5 errors (spelling, grammar, punctuation)</p> <p>In text citations and references are included as appropriate</p>	<p>Essay has a proper heading and centered title, typed using 12pt font, double spaced with proper margins.</p> <p>Essay is well written using a variety of simple and complex sentence structures creating a smooth rhythm to the piece</p> <p>Essay is proofread well with only 1 or 2 errors (spelling, grammar, punctuation etc.)</p> <p>In text citations and references are included as appropriate</p>	10%	
					Total Score	

Appendix C – Narrative Descriptive Writing, Assessment Rubric

	0-2	3-5	6-8	9-10	Weighting	Score
Introduction	Introduction is unimaginative or too obvious and needs to be rewritten	Introduction unremarkable and needs some work	Good introduction but could be altered, though the reader still wants to continue	Strong introduction makes the reader want to find out more	5%	
Organization and Idea Development	Paper is far too long/short and loses focus or is boring because of overwriting and or no elaboration Essay's structure is greatly lacking, interfering with reader's ability to understand piece	Good ideas but overshadowed at times by too much and/or too simplistic writing making paper seem choppy Essay has some structure evident but at times is hard to follow or is not well organized	A few instances of clutter and/or not enough elaboration, but for the most part flows evenly. Essay has structure and organization though lacks unity because of occasional confusing details	Length of paper is appropriate and flows smoothly from one idea to the next Essay has excellent structure and is well organized	15%	
Voice	Author's voice is not evident and the entire essay needs more work	Author's voice is developing and shows some effort but at times the piece needs more work	Author's voice and personality is evident and effort was clearly put into the piece making it enjoyable to read	Author's voice is clearly evident and piece is thoughtful and well-written in a sophisticated and unique style	30%	
Professional Relevance Impact on Practice	Essay is not relevant to MRT practice and does not work toward advancing practice.	Essay is only somewhat relevant and does not offer any valuable insights.	Essay relates to MRT practice but does not offer a unique or insightful perspective	Essay relates directly to MRT practice. It contributes a valuable perspective and/or advances the practice	35%	
Closing	There is no real ending leaving the reader unsatisfied	The ending is too simple—it doesn't fit the flow of the story or contains weak language leaving the reader confused	The ending is good but does not fully tie the paper together, leaving the reader wanting more	The final sentences tie the entire paper together, leaving the reader completely satisfied	5%	

	0-2	3-5	6-8	9-10	Weighting	Score
Mechanics	<p>No regard for format</p> <p>Essay is difficult to read because of too simplistic sentence structure and/or too many fragments</p> <p>Essay has 9 or more errors (spelling, grammar, punctuation)</p> <p>Evidence of plagiarism – submission automatically disqualified</p>	<p>Missing most aspects of format but not all.</p> <p>Essay is somewhat difficult to understand as there are many poorly constructed sentences or fragments</p> <p>Essay has 6 to 8 errors (spelling, grammar, punctuation)</p> <p>In text citations and references are included as appropriate</p>	<p>Has most of the proper format but wrong font size, or spacing, etc.</p> <p>Essay has a few sentence errors and/or is lacking in variety or complexity</p> <p>Essay has 3 to 5 errors (spelling, grammar, punctuation)</p> <p>In text citations and references are included as appropriate</p>	<p>Essay has a proper heading and centered title, typed using 12pt font, double spaced with proper margins.</p> <p>Essay is well written using a variety of simple and complex sentence structures creating a smooth rhythm to the piece</p> <p>Essay is proofread well with only 1 or 2 errors (spelling, grammar, punctuation etc.)</p> <p>In text citations and references are included as appropriate</p>	10%	
					Total Score	

Appendix D – Multimedia (Exhibit), Assessment Rubric

Criteria	0-2	3-5	6-8	9-10	Weighting	Score
Design	Screens are either barren and stark or confusing and cluttered. Exaggerated emphasis on graphics and special effects weakens the message and interferes with the communication of content and ideas.	Multimedia elements accompany content but there is little sign of mutual reinforcement. Use of graphics do not reinforce content	Multimedia elements and content combine to adequately deliver high impact content with the elements and words reinforcing each other.	The combination of multimedia elements and content takes communication to a superior level. There is clear attention given to balance, proportion, harmony, and restraint. The synergy reaches the intended audience	10%	
Use of Enhancements	No graphics, video, audio, 3-D, or other enhancements are present or use of these tools is inappropriate.	Limited graphics, video, audio, 3-D, or other enhancements are present but do not always enrich the learning experience.	Most graphics, video, audio, 3-D, or other enhancements are used appropriately to enrich the experience.	All graphics, video, audio, 3-D, or other enhancements are used effectively to enrich the learning experience. Enhancements contribute significantly to the audience's understanding of the material presented	10%	
Branching	Project contains few choices. The design is linear.	Project contains few well-designed branching of information. The design is primarily linear.	Project contains some well-designed branching of information while some content is displayed in a linear fashion.	Project is truly multimedia, rather than linear and contains a significant number of well-designed elements to present the information	10%	
Originality	The work is a minimal collection/rehash of other people's ideas, products, images and inventions. There is no evidence of new thought.	The work is an extensive collection/rehash of other people's ideas, products, images and inventions. There is little evidence of new thought or inventiveness.	The project shows some evidence of originality and inventiveness. While based on an extensive collection of other people's ideas, products, images and inventions, the work extends beyond that collection to offer new insights.	The project shows significant evidence of originality and inventiveness. The majority of the content and many of the ideas are fresh, original, and inventive.	20%	

Criteria	0-2	3-5	6-8	9-10	Weighting	Score
Professional Relevance Impact on Practice	Exhibit is not relevant to MRT practice and does not work toward advancing practice.	Exhibit is only somewhat relevant and does not offer any valuable insights.	Exhibit relates to MRT practice but does not offer a unique or insightful perspective	Exhibit relates directly to MRT practice. It contributes a valuable perspective and/or advances the practice	35%	
Overall Quality of Submission	<p>Subject knowledge is not evident. Information is confusing, incorrect, or flawed.</p> <p>The sequence of information is not logical</p> <p>Contents of product are not based in or supported by evidence.</p> <p>>5 instances where professional presentation may be lacking (writing mechanics, imagery, communication, etc.)</p> <p>Evidence of plagiarism or copyright infringement - submission automatically disqualified</p>	<p>Some subject knowledge is evident. Some information is confusing, incorrect, or flawed.</p> <p>The sequence of information is somewhat logical. Pathways to information are confusing and flawed.</p> <p>Contents of product are weakly linked to evidence.</p> <p>3-4 instances where professional presentation may be lacking (writing mechanics, imagery, communication, etc.)</p>	<p>Subject knowledge is evident in much of the project. Most information is clear, appropriate, and correct.</p> <p>The sequence of information is logical. Pathways to most information are clear and direct.</p> <p>Good use of evidence – for the most part, contents of product are based in and/or supported by relevant evidence</p> <p>Overall quality of submission is professional. 1-2 instances where professional presentation may be lacking (writing mechanics, imagery, communication, etc.)</p>	<p>Subject knowledge is evident throughout the project. All information is clear, appropriate, and correct.</p> <p>The sequence of information is logical and intuitive. Pathways to all information are clear and direct.</p> <p>Highly effective use of evidence – contents of product are clearly based in and/or supported by relevant evidence.</p> <p>Overall quality of submission is highly professional. Where applicable – no issues with writing mechanics, choice of imagery, communication, etc.</p>	15%	
					Total Score:	