

# Intellectual Archive

$$\frac{R^2}{2} \frac{1}{r^2} = \frac{8\pi G}{c^4} \frac{T^{\nu}_{\mu}}{r^2}$$
$$\Omega = 4 \left( \frac{1+2A^2}{1-2A^2} - \frac{A^2 r^2}{A^2 r^2} \right) = A(1+4A^2 - 2A^2 r^2)$$
$$\frac{R^2}{2} \frac{1}{r^2} = \Omega^{\mu}_{\nu} \wedge \Omega^{\nu}_{\rho} = \omega^{\mu}_{\nu} \wedge \omega^{\nu}_{\rho} = \frac{a'}{ab} \frac{b+\pi r}{7b^2} \omega^{\mu} \wedge \omega^{\nu}$$
$$\left[ \left( \frac{V_r}{r} \right)^2 + \left( \frac{\partial V_z}{\partial z} \right)^2 \right] + \left( \frac{\partial V_r}{\partial r} + \frac{\partial V_z}{\partial r} \right)^2 + \left( \frac{\partial V_r}{\partial r} - \frac{V_r}{r} \right)^2 + \left( \frac{\partial V_z}{\partial r} + \frac{V_r}{r} \right)^2$$
$$\frac{r^2}{c^2} \approx 10^{-10} \div 10^{-11}$$
$$\int_0^{r^2+\delta} g_{quasi} dr$$

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**Toronto, October / December 2020**

# Studying *Gardens of the World* with Students of Higher Education Establishments

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*We all have within us a need to create beauty.  
And we all can in a garden, however small.  
It is this need which has written the history of gardens.  
Audrey Hepburn*

## Abstract

The image of one of the greatest actresses, Audrey Hepburn, is presented in different ways: actress, model, dancer, the Goodwill Ambassador for UNICEF. Audrey Hepburn, who loved nature and gardens, saw a rare opportunity to bring forth their beauty in poetic and meaningful ways in *Gardens of the World*. Her unique vision of the series included fusing the historical and aesthetic aspects with the arts of literature, music and painting.

*Gardens of the World* was filmed on location around the world, including:- Claude Monet's garden at Giverny; George Washington's Estate at Mount Vernon; the ancient moss temple garden Saiho-ji in Kyoto Japan; gardens at Mottisfont Abbey, Tintinhull House, Chilcombe Garden, Hidcote Bartram Village and Hidcote Manor in England; the Keukenhof Garden and the Tulip Fields of Lisse in the Netherlands, Villa Pancha in the Dominican Republic; Giardini di Ninfa and Villa Gamberaia in Italy; La-Roseraie de L Haÿ-les-Roses, Chateau de Courances, Jardin du Luxembourg, and Jardin du Luxembourg in France. The 8 episodes explore: Roses & Rose Gardens, Formal Gardens, Tulips and Spring Bulbs, Country Gardens Japanese Gardens Flower Gardens, Tropical Gardens, Public Gardens and Trees. Each episode presents a different garden theme as well as broader concepts of aesthetic, botanical, cultural or environmental significance.

**Key words:** gardens, Audrey Hepburn, students, universities, foreign language.

**Introduction.** Actress and humanitarian Audrey Hepburn, star of "Roman Holiday" (1953, **Fig. 1**), "Sabrina" (1954), "The Nun's Story", "Love In The Afternoon", "The Children's Hour", "My Fair Lady" (1964), "Two For The Road", "Charade" (1963), "How to Steal a Million", "Breakfast at Tiffany's" (1961), "Wait

Until Dark" (1967) and other, remains one of Hollywood's greatest style icons (**Fig. 2**) and one of the world's most successful actresses. *Gardens of the World* with Audrey Hepburn is her final filmed project (**Fig. 3**).



**Fig. 1.** *Roman Holiday* (1953). **Fig. 2.** Hollywood's style icon. **Fig. 3.** *Gardens of the World* (1990).

In the context of our research the formation of professional readiness of future Biology teachers has studied V. Bobrytska, A. Derkach, L. Horiana, N. Andreeva, L. Barna; some problems of the formation and development of personality in the process of preparation for professional activity and directly in its process are highlighted in the researches of L. Vygotskyi, O. Leontiev and others; using of the latest technologies and methods in teaching foreign languages for professional needs (O. Tarnopolski, S. Nikolaeva, G. Turchynova, L. Petko, V. Bezliudna, Z. Korneva).

The students at Biology department of universities can visit online many of the more famous gardens of the world with Audrey Hepburn and learn of their secrets [9; 13]. This documentary series is beautifully narrated by the elegant presence of garden lover, Audrey Hepburn. Visually lush, richly informative, refreshing, beautiful, *Gardens of the World* with Audrey Hepburn serves up a veritable treatise on our most illustrious cultivated environs. Each episode sets forth a different garden theme – informed by broader concepts of aesthetic, historical or environmental importance, from masterful archetypes of the Italian Renaissance and 17th Century France, in *Formal Gardens*, to the world's first great story of urban renewal, "The Greening of Paris," in *Public Gardens and Trees*. All 8 episodes are wonderful and the interview

with Audrey is a great bonus that shows us again what a special and great woman she was.

*The aim of publishing papers* is to present the importance of the highly-acclaimed documentary series *Gardens of the World* with Audrey Hepburn for the professional training of future Science teachers in the conditions of university.

**The materials and the results of the research.** *Gardens of the World* with Audrey Hepburn is a beautiful collector's series filmed on location, featuring some of the most beautiful gardens from around the world. Audrey Hepburn is as elegant as ever as she guides you on this magical journey and walks you through each of these magnificent landscapes, quoting some of her favorite authors and poets, and sharing her love and knowledge of gardens. Audrey Hepburn won an Emmy® Award for "outstanding individual achievement" in the making of this program.

Audrey Hepburn's final filmed project before her death, this gardening show is just about perfect. Magnificent gardens, fascinating historical information, Michael York's smooth and lilting narration and beautiful classical music mixed with the organic sounds of nature make this thoroughly enjoyable. But it is the moments when Ms Hepburn is on screen that are truly magical. As she gracefully walks through the landscapes and shares her love of all things horticultural with the audience.

The scene where she reads from Anne Frank's diary is just stunning (Anne Frank's diary has been translated into more than 70 languages). The chestnut tree that's been described by Anne has fallen this year, after a long struggle for survival. Audrey reads this part with so much insight, so much light, that in a way, she revives Anne's passion for life, and the tree that inspired her to write such wisdom at such a young age [8].

Audrey and Anne were two dark-haired Dutch girls who had been born in other countries. Both of these ladies were born in 1929 and have inspired countless people with their bravery; one in the written word, and the other through her emotionally-charged performances. They were less than six weeks apart in age Audrey born May 4 1929 (Fig. 4). and Anne, June 12 1929 (Fig. 6). And Anne had even known of and commented upon executions in Goirle when she wrote from the Franks' hidden

rooms: "Prominent citizens—innocent people—are thrown into prison to await their fate. If the saboteur can't be traced, the Gestapo simply put about five hostages against the wall. Announcements of their deaths appear in the papers frequently [21]". Anne Frank wrote in her diary for two years while her family was in hiding in Amsterdam.



**Fig. 4. Audrey Hepburn in occupied Holland (1943).**

**Fig. 5. The Rose Peace (1945).**

**Fig. 6. Anne Frank's diary 1942-1944. Amsterdam.**

Anne Frank was an ordinary teenage girl. Although she was originally from Germany, she was living in Holland when II World War broke out in 1939, as her parents had decided to leave their home country for safety reasons in 1933. In July 1942, they had to go into hiding on the top floor of a building in Amsterdam, where they lived for two years, because things were getting really difficult for Jewish families. In the summer of 1944, not long before the British, the Americans and their allies finally won the war and drove the German army away, her diary suddenly stopped. The Nazis killed Anne Frank, but luckily for everybody, they couldn't kill her memory [4], **see movie** [11].

Nature and flowers had special meaning for Audrey Hepburn due to the hope they brought after the World War II, assuring food was coming and reminding her to appreciate nature's beauty.

Audrey Hepburn became a fashion and cultural icon, and continues to be so today. She was also a magnificent humanitarian [6]. The memories of World War II horrors shaped her desire to help children and she became a goodwill ambassador for



UNICEF in the late 1980s. Traveling the world, Hepburn tried to raise awareness about children in need. She understood too well what it was like to go hungry from her days in the Netherlands during the German Occupation. Making more than 50 trips, Hepburn visited UNICEF projects in Asia, Africa and Central and South America. She won a special Academy Award for her humanitarian work in 1993.

Marking the 70th anniversary of the United Nations' Universal Declaration of Human Rights, experience music that celebrates the triumph of the human spirit. Hear Grammy Award-winning mezzo-soprano Isabel Leonard narrate Michael Tilson Thomas' spellbinding musical setting *From the Diary of Anne Frank*, a piece written for Audrey Hepburn and UNICEF in 1990 [7]. Performance of "Elegy for Anne Frank" by Lukas Foss at The Oslo Concert [15], arranged in 1990 by Eli Wiesel – Nobel Peace Prize Laureate 1986. Audrey Hepburn's reciting from "The Diary of Anne Frank" starts at 5.12 [7].

Hepburn's first field mission for UNICEF was to Ethiopia in 1988 (Fig. 7, 9). She visited an orphanage in Mek'ele that housed 500 starving children and had UNICEF send food [5].

The United States President George Bush presented Hepburn with the Presidential Medal of Freedom (see **video [10]**) (Fig. 8) in recognition of her work with UNICEF, and the Academy of Motion Picture Arts and Sciences posthumously awarded her the Jean Hersholt Humanitarian Award for her contribution to humanity. Unfortunately, due to severe illness, Audrey Hepburn was unable to attend the medal ceremony.



**Fig. 7. Ambassador of UNICEF**



**Fig. 8. Presidential Medal of Freedom.**



**Fig. 9. Audrey Hepburn in Ethiopia.**

By the way *Gardens of the World* with Audrey Hepburn is an acclaimed documentary television series that debuted in the United States on PBS on January 21, 1993, filmed on location in seven countries in the spring and summer of 1990. Hepburn was awarded an Emmy for Outstanding Individual Achievement posthumously. The series features Hepburn visiting exemplary and elegant gardens both private and public; each episode sets forth a different garden theme, as well as aesthetic, environmental, historical or horticultural concepts. Interspersed with Hepburn's on-camera performances are expository and historical background segments narrated both by Audrey Hepburn and Michael York [12].

These are: ***Episode 1***. "Roses and Rose Gardens": An adventure with the flower of legend, romance and beauty (see **video** [9]). ***Episode 2***. "Formal Gardens": A journey through the evolution of formal garden design. ***Episode 3***. "Country Gardens": An exploration of the earthly country garden. ***Episode 4***. "Public Gardens and Trees": The stories of Mt. Vernon and the greening of Paris, concluding with Hepburn's tribute to trees and nature. ***Episode 5***. "Flower Gardens": An exploration of Monet's gardens at Giverny and classic English perennial border styles. ***Episode 6***. "Tropical Gardens": A wide ranging affirmation of nature's floral diversity. ***Episode 7***. "Japanese Gardens": A journey reflecting centuries of Japanese cultural reverence for nature. ***Episode 8***. "Tulips and Spring Bulbs": A focus on spring blossoms and their inspiration as art and in the garden. Some of the gardens featured in the show include: Claude Monet's gardens at Giverny, George Washington's estate at Mount Vernon, and Jardin du Luxembourg in Paris [12].

Back to studying gardens of the world. ***Episode 1***. "Roses and Rose Gardens" [9].

A **rose garden** or **rosarium** is a garden or park, often open to the public, used to present and grow various types of garden roses or rose species. Designs vary tremendously and roses may be displayed alongside other plants or grouped by individual variety, colour or class in rose beds [35].

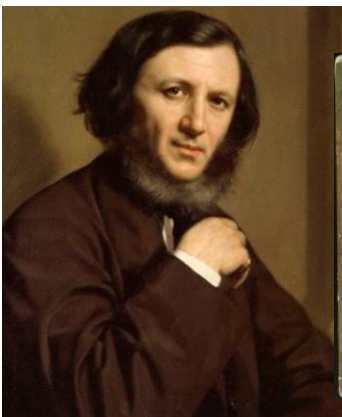
A **rose** is a woody perennial flowering plant of the genus ***Rosa***, in the family Rosaceae, or the flower it bears. There are over three hundred species and tens of thousands of cultivars. They form a group of plants that can be erect shrubs, climbing,

or trailing, with stems that are often armed with sharp prickles. The name *rose* comes from French, itself from Latin *rosa* [34].

**Episode 1** (Fig. 12) Miss Audrey Hepburn's opening:

Dear rose, thy joy's undimmed,  
Thy cup is ruby-rimmed,  
Thy cup's heart nectar-brimmed [9].

It's poem "Women and Roses" by Robert Browning (1812–1889), Fig. 10, 11. He was an eminent British poet of the Victorian period. He is also classified among outstanding Romantics, such as, Wordsworth, Shelley, Keats and so on [33].



**Fig. 10. Robert Browning. Fig. 11. Poem "Women and Roses". Fig. 12. Episode 1 [14].**

Audrey Hepburn leads an eloquent adventure in pursuit of the breadth and beauty of the rose: old roses, modern roses, wild roses; floribundas, climbers, and ramblers; Bourbons, Damasks, Gallicas [22] and Hybrid Teas. From the French ideal of a rose garden south of Paris at La Roseraie de l'Hays les Roses (La Roseraie du Val-de-Marne, see [video](#) [49], Fig. 13, 14) to the unsurpassed collection and allure of



**Fig. 13. Roseraie du Val de Marne, Paris. Fig. 14. Roseraie du Val de Marne. Dome.**

old roses during high rose tide at Mottisfont Abbey in Hampshire, England (Fig. 15, 19, 20), the rose affirms its rightful place as the ultimate flower of legend, romance

and beauty. Appearing with Audrey Hepburn: Sir Graham Stuart Thomas (Fig. 16), one of the 20th century's greatest rosarians and author of world renown [36].



**Fig. 15. Mottisfont Abbey in Hampshire, England. Fig. 16. With Sir Graham Stuart Thomas.**

**Mottisfont Abbey's** walled garden has been home to the National Collection of old-fashioned roses since the 1970's when world-famous rosarian Graham Stuart Thomas (who has a yellow David Austin rose named after him, **Fig. 18**), re-designed the former kitchen garden at this former Augustinian abbey for the National Trust.



**Fig. 17. Audrey Hepburn roses by breeder Jerry Twomey. Fig. 18. Rosa Graham Thomas.**

Four decades later, the rose garden is one of the most famous in the world and draws visitors from far and wide to marvel at the wonderfully scented garden.

The collection of roses is quite breathtaking.

The Abbey, which dates in part to the 13th century provides a striking backdrop to a 21-acre garden -designed in part by Sir Geoffrey Jellicoe. [37].

Set by the banks of the crystal River Test, cutting through the chalk downland, sits Mottisfont Priory, dating to the 13th Century and with a colourful history right up to the 20th Century with Maud and Gilbert Russell bringing life again to the old

house and the National Trust subsequently taking the House and Gardens into its care – and particularly honouring its rose heritage [20].



**Fig. 19. Entrance to the walled garden.**



**Fig. 20. The Pilgrim.**

Audrey Hepburn ends "Roses and Rose Gardens" with words from song "A Red, Red Rose" (1794) in Scots by Robert Burns (**video** at 20.06 min [9]):

O my Luve's like a red, red rose  
That's newly sprung in june;  
O my Luve's like the melodie  
That's sweetly play'd in tune... [1].

Our students can sing and listen to an old romantic ballad written by Scotland's National Poet, Robert Burns (1759–1796, Fig. 21, 22), sung and played by Josienne Clarke and Ben Walker [38].



**Fig. 21 Robert Burns.**



**Fig. 22. A Red, Red Rose illustration, 1962.**



**Fig. 23. William Shakespeare 2000.**

Getting to the point for the students of our Faculty Faculty of Science Education and Ecology the film "Roses and Rose Gardens" [9] is valuable because the students of scientific problem group have been studying for 3 years the famous rosaries of the world and the selection work of their headbreeders (D. Austin, F. Meilland, G. Thomas, J. Twomey). The results were published at conferences as scientific and practical publications by students with supervisors, e.g., "The English "William and Catherine" Rose and Wedding of The Century" [19], "The image of British actress Audrey Hepburn in a rose named after "most beautiful woman of all time" [23], " The rose "Leonardo da Vinci" by Alain Mayland" [16], "Rosa "Sir Walter Scott Rose" by David Austin" [30], "Great Rosarian of the World' – British hybridizer of English Garden roses David Austin" [14], "The Wild Prairie Rose: official State Flower of North Dakota and Iowa" [31], "Rose: America's National Flower" [29], "The *William Shakespeare* Rose and the Rose in Shakespeare's works" [32], "*William Shakespeare* rose named after 'British Man of the Millennium' [40], "The rose *Sweet Juliet* is a tribute to young love" [41], "*Wuthering Heights* and rose *Emily Brontë* named after celebrating the bicentenary of the birth of the novelist" [18], "David Austin English Shrub Rose "Kew Gardens" [22], "*Charles Darwin*. English Shrub Rose bred by David Austin" [39].

R. J. Sternberg notes that creativity of personality, which can lead to new scientific discoveries, involves intellectual abilities, knowledge, and motivation, as does problem solving. But, he posits that creativity also requires the disposition or preference for engaging in novel ways of thinking [43; 44]. He characterizes these dispositions as "thinking styles" [42]. Thinking styles describes individual differences not in abilities, but in preferences for the use of our abilities. He claims that matching learners' thinking styles to their learning environment can enhance creative thinking and problem solving.

Americans scientists Eric M. Anderman and Gale M. Sinatra dwell on scientific problems of import require non-routine problem solving. That is, most problems worth solving are ill-structured and required "thinking outside the box" for an effective solution strategy. In general, successful problem solving requires

domainspecific knowledge and skills (Chi & Glaser, 1985) and the procedural and conditional knowledge to know when and how to apply those skills (Paris, Lipson, & Wixson, 1983). Non-routine problem solving requires the ability to metacognitively monitor and selfregulate relevant skills and strategies. In addition, effective problem solvers also need the "will" (the motivational goals, attitudes, and interests) to attend to the problem and persist in the face of difficulties [3, p. 11].

**Conclusion.** We would to tell that Audrey Hepburn was a wonderful woman, mother, actress, presenter, ambassador of UNICEF. She did not consider herself ideal, but she was considered an icon of style. Her elegance and style will always be remembered in film history as evidenced by her being named in Empire magazine's «The Top 100 Movie Stars of All Time».

The last work by Audrey Hepburn in kinoindustry "*Gardens of the World* with Audrey Hepburn" is important for the training of Science students in the conditions of university.

Most important, we are at a critical point in terms of encouraging students to consider careers in Science. Many Ukrainian jobs are being shipped overseas to highly qualified individuals who are well trained in science. Many Ukrainian students turn away from science-related disciplines because they have had bad experiences in science classes during high school.

Much research in recent years has indicated that science classrooms can be created in ways that enhance the cognitive abilities of students. Lecturers can have profound effects on students' cognition and motivation as they attend to daily, routine issues. The specific decisions that future Science teachers make can affect a number of important educational outcomes.

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